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CHARACTERIZATION AND ANALYSIS OF DEVONIAN SHALES
AS RELATED TO RELEASE OF GASEOUS HYDROCARBONS

Quarterly Technical Progress Report
October - December 1978

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CHARACTERIZATION AND ANALYSIS OF DEVONIAN SHALES
AS RELATED TO RELEASE OF GASEOUS HYDROCARBONS

Quarterly Technical Progress Report
October - December 1978

EXECUTIVE SUMMARY

This ninth Quarterly Technical Progress Report on the Characterization of Eastern Devonian Gas Shales as Related to Release of Gaseous Hydrocarbons, under U. S./DOE Contract No. EY-76-C-05-5205, describes the characterization data obtained during the period October through December, 1978.

This program was initiated in September, 1976, with the objective and scope of determining the relationships between the shale characteristics, hydrocarbon gas contents, and well location, and thereby provide a sound basis for (1) assessing the productive capacity of the Eastern Devonian Gas Shale deposits and (2) guiding research, development, and demonstration projects to enhance the recovery of natural gas from the shale deposits. Included in the scope of the program are a number of elemental tasks as a part of the Resource Inventory and Shale Characterization subprojects of DOE's Eastern Gas Shales Project designed to provide large quantities of support data for current and possibly future needs of the Project.

One well in Allegany County, New York was sampled in September 1978. A total of 412 samples were collected from the Allegany County, New York well (165 for Battelle and 247 for other DOE/MERC contractors).

Two other wells, namely in Wetzel County, West Virginia and Johnson County, Kentucky, were cored during the last quarter of 1978. A total of 109 samples were obtained from the Wetzel County, West Virginia well (46 samples for Battelle and 63 samples for other DOE/MERC contractors). The samples were obtained from depths of 6100 to 6635 feet.

Characterization data on I-2 (EGSP Ind. No. 2), Clark County, Indiana, and Y-1 (EGSP New York No. 1), Allegany County, New York wells, are reported and discussed in this ninth Quarterly Technical Progress Report.

Analysis of the hydrocarbon gases in Y-1 samples indicates that the longer chain hydrocarbon gases (ethane, propane, butane) in these shales are significantly higher than in the previous wells studied. Because these hydrocarbons have significantly higher heats of combustion than methane, the methane equivalent of the hydrocarbon gas contents in New York shales is considerably higher.

The Indiana well (I-2) shows surprisingly high carbon contents compared to the hydrocarbon gas contents. Contrary to observations in previous wells, the hydrocarbon gas contents appear to be inversely related to the carbon and hydrogen contents in the solids.

The carbon contents of the Y-1 (Allegany County, New York) well, on the other hand, are somewhat lower than one would predict from the hydrocarbon gas contents. There is still a positive relationship between the carbon and hydrocarbon gas contents, however; that is, higher carbon contents are associated with increasing hydrocarbon-gas content in the shales. A similar relationship is also apparent between the sulfur and hydrocarbon gas contents.

Among the physical properties, the I-2 well generally exhibits lower density values than previously studied shales. This is in line with the observed high carbon (organic) contents in these shales. Lower densities are observed with increasing organic content.

No unusual trends are observed in the porosity values, and a reasonable agreement exists between the measured Hg-intrusion values and those calculated from the density data. Generally, the expected inverse relationship exists between the porosity and bulk density data, that is, higher porosity values are associated with low bulk densities.

From the limited lithological observations New York shales exhibit variable clay, mineral, and quartz contents. Generally, low levels of pyrite and carbonate minerals are observed. The low pyrite and carbonate contents noted in the powder examination of the samples are supported by the EDAX results showing low Ca and S contents.

INTRODUCTION

The eighth Quarterly Technical Progress Report was essentially devoted to the presentation and discussion of the characterization data on M-1 (EGSP WV No. 6), Monongalia County, West Virginia.

This ninth Quarterly Technical Progress Report summarizes the characterization data on the I-2 well (Clark County, Indiana) and partial data on the Y-1 well (Allegany County, New York).

Among the characterization data reported and discussed are hydrocarbon gas contents surrounding the shales in the free space of the seabed containers, various chemical components (C-H-N and S), along with a number of physical properties (densities, porosity, and surface areas). Also a limited study of the lithology of the shales has been made and reported.

OBJECTIVE AND SCOPE

The objective of this program is to determine the relationships between shale characteristics, hydrocarbon gas content, and well location to provide a sound basis for defining the productive capacity of the Eastern Devonian Shale deposits and for guiding research, development, and demonstration projects to enhance the recovery of natural gas from the shale deposits. The program includes a number of elemental tasks as a part of the Resource Inventory and Shale Characterization subprojects of DOE's Eastern Gas Shales Project and is designed to provide a wide variety of support data for that project.

Approximately 1000 core samples of gas bearing Eastern Devonian Shale will have been examined by the end of the program. After the characterization data for individual wells have been compiled, a regression-type analysis for pattern recognition will be performed to establish the interrelationships between the shale characteristics, the hydrocarbon gas content, and well locations from which the samples were obtained.

The following tasks comprise the total efforts in this research program:

<u>Task</u>	<u>Descriptive Title</u>
1	Core Sampling
2	Gas Content and Gas Release Kinetics
3	Chemical Characterization of Shale
4	Physical Characterization of Shale
5	Lithology of Shale
6	Data Interpretation and Correlation

Brief descriptions of the above tasks are given below.

Task 1. Core Sampling

In cooperation with representatives of DOE and of the cognizant State Geological Survey and the U. S. Geological Survey, (1) participate in the selection of core samples for characterization in the Battelle program, and (2) encapsulate the selected samples in special sealed containers to preserve their approximate "down-hole" condition and gather relevant information from on-site observations and well-log data for subsequent interpretation and correlation with characterization results on the selected samples.

Task 2. Gas Content and Gas Release Kinetics

Determine the composition of and quantity of hydrocarbon gas evolved from and surrounding the shale samples in the sealed containers. Determine the gas release kinetics by observations of the rate of pressure build-up in the sealed containers after initial release of pressure for selected samples having high initial pressures and by thermal gravimetric measurement of weight loss as a function of time at different temperatures for specimens cut from the samples after removal from the sealed containers.

Task 3. Chemical Characterization of Shale

Determine total carbon, hydrogen, and nitrogen contents and, where appropriate, total carbonate content for all samples. Determine trace elements by optical emission spectroscopy on selected samples from each well.

Task 4. Physical Characterization of Shale

Characterize the microstructure of the samples in terms of densities (bulk, apparent, and true), porosity (total, open, and closed), pore size distribution, total surface area, and gas permeability.

Task 5. Lithology of Shale

Examine briefly shale specimens from each well sampled. Initially, this task included determination of the mineralogical composition of the shales by X-ray diffraction and a definition of the morphology of the minerals and their relationship to organic matter by thin-section petrography; however, it has been mutually agreed to discontinue this portion of the effort. Recently, a prospectus was prepared for DOE/MERC management proposing that the mineralogical studies of the shales be upgraded and expanded.

Task 6. Data Interpretation and Correlation

Compile the data from the filed observations, well logs, and laboratory characterizations and observations into a data package for each well for input to the pattern recognition analysis, for input to the USGS data bank, and for transmission to the DOE technical project officer. Determine, using pattern recognition, statistical analysis techniques and conventional data interpretation methods, the interrelationships and trends between the hydrocarbon gas content at various levels, the well head observation, and the lithological, chemical, and physical characteristics of the shale for individual wells and as a function of location.

ANALYSIS AND DISCUSSION OF THE CHARACTERIZATION DATA

The characterization data on I-2 (Clark County, Indiana) and the majority of Y-1 (Allegany County, New York) samples are reported and discussed in the ensuing pages.

The data discussed include hydrocarbon gas contents, total C-H-N, sulfur, bulk and true densities, surface area, porosity, and lithological analyses.

Task 1. Well Coring

Cored shale samples were obtained from three locations during this reporting period. One well was cored in Wetzel County, West Virginia in October 1978. Ten barrels of core were taken from this location from a depth between 6102 and 6635 feet. Forty-six samples were collected for Battelle and 63 samples for other DOE contractors.

Another well was sampled in Johnson County, Kentucky during December 1978. Coring was begun at 967 feet and stopped at 1510 feet. A total of 10 barrels of core were collected. There were 54 samples collected for Battelle and 72 for other DOE contractors.

Battelle also obtained 19 shale samples from an Illinois location. No other information was available to Battelle at the time of preparation of this report.

Clark County, Indiana (I-2) and Allegany County, New York (Y-1) wells were cored in September 1978. Only 11 samples were collected for Battelle and 25 samples were delivered to other DOE contractors from the Clark County, Indiana well. Coring was made at a depth starting at 124 feet and ending at 243 feet. Coring information and field sampling data on the I-2 well are presented in Tables 1 and 2, respectively. Figure 1 is a plot of surface time versus depth for the I-2 well.

Coring of Allegany County, New York (Y-1) samples was made between depths of 370 and 2926 feet. There were 165 samples collected for Battelle and 247 for other DOE contractors. Well and field sampling data for Y-1 shales are given in Tables 3 and 4, respectively. Surface time data is plotted in Figure 2 for the Y-1 well.

Task 2. Free Gas Contents and Gas Release Rates

The initial gas release values for Clark County, Indiana (I-2) and Allegany County, New York (Y-1) wells are given in Tables 5 and 7, respectively. Statistical analyses are depicted in Tables 6 and 8. The I-2 well shows a mean value of total hydrocarbon content of 10.1 percent with a standard deviation of 5.27, variance 27.74.

Free gas contents for Allegany County, New York (Y-1) well are summarized in Table 7, with the statistical analysis given in Table 8. A wide variation in the total hydrocarbon gas contents in the shales is quite apparent from Table 7 and from the statistical parameters in Table 8. The mean value of hydrocarbon gas contents in the Y-1 well is approximately 17 percent with a standard deviation of 14.3 and a variance of 204.

Some of the shale specimens exhibit significant amounts of longer chain hydrocarbon gases (ethane, propane, butane). These long chain hydrocarbons have considerably higher heats of combustion than that of methane. For example, the heat of combustion for ethane (373 kCal/mol) is about 1.75 times that of methane (212 kCal/mol). The values for propane (531) and butane (688) are 2.5 and 3.2 times higher than that of methane, respectively. With the heat of combustion value in mind the total hydrocarbon content could be converted to methane equivalent by simply multiplying the high hydrocarbon gas values by the ratio of the heats of combustion. Table 9 summarizes the methane equivalent of the hydrocarbon gas contents obtained in this manner. High hydrocarbons to methane ratio ($2 + 3 + 4 + 5/1$) is also given in Table 9. This ratio could be looked at as a measure of gas quality. The higher this ratio the higher would be the BTU content of the gas. As indicated in Table 9, the ratio varies between zero (no hydrocarbons other than methane) and 2.73 for direct ratio, and zero to 7.5 for the methane equivalents. Figure 3 shows the hydrocarbon gas released per unit volume of shale for the I-2 well.

Gas release rates were determined for five shale samples from the Y-1 well. This work was performed by rapidly evacuating the shale containers, and then monitoring the pressure buildup over a period of about 65 days. Data for these samples are shown below.

GAS PRESSURES, TORR

Time, days	Sample Identification (EGSP-NY1 Series)				
	530	1939	2119	2538	2832
0	22	22	22	22	20
1	33	36	46	91	58
5	32	49	52	240	63
15	34	83	61	345	72
40	34	137	69	318	*
65	37	193	76	318	*

* Air accidentally admitted to container

These data were analyzed using the methods of Wilson (Phil. Mag. (7) 39, 48 (1948)). Accordingly, the following equation applies:

$$\frac{P}{P_{\infty}} = 1 - \sum \frac{4a(1+a)}{4+4a+a^2q_n^2} e^{-Dq_n^2 t/r^2} \quad (1)$$

where r is the sample radius (4.4 cm), a is the ratio of the capacity of the shale to that of the free space in the container, and q_n 's are the positive non-zero roots of the equation

$$aq_n J_0(q_n) + 2J_1(q_n) = 0 \quad (2)$$

where the J 's are zero and first order Bessel functions. Solutions for the q_n 's are available in standard tabulations for various values of a , the capacity parameter. The latter parameter must be determined by

fitting the data to Equation 1. For cases where there is little sorption of the gas by the shale, a is small and is determined by bulk volume of the shale and its porosity. However, when appreciable sorption occurs, the value of a can be quite large. At values of $a > 10$, Equation 1 becomes insensitive to this parameter. Within the range of a values of 0-10, the shape of the pressure response curve is fairly sensitive to the value of a , and a preliminary judgment of the appropriate value of a can be made by comparison of the pressure curve to curves given by Wilson (op. cit.).

Application of Equation (1) to the data cited above yields the results tabulated below:

PARAMETERS FOR EQUATION 1

Sample No.	P_{∞} , torr	D , cm^2/sec	a
530	34	2×10^{-6}	0.3
1939	1650	8.5×10^{-9}	large
2119	77	1×10^{-6}	0.43
2538	319	4×10^{-6}	large
2832	(120)	$(1 \times 10^{-6})^*$	$(2)^*$

* Insufficient data; values cited are rough estimates.

Calculated curves for samples Y-1-1969, 2119, and 2538 are shown along with the experimental data in Figures 4 and 5. Data for the other two samples are not plotted for obvious reasons.

In principle, it should be possible to assess the total gas content per unit volume of shale from knowledge of a . However, because of the insensitivity of the results when $a > 10$, only qualitative comparisons can be made for the current samples. For these samples, the value of a , based solely on the physical dimensions of the shale and its container, is 0.25. Thus, all of these samples display at least some capacity for hydrocarbon gas sorption.

It is interesting to compare the derived values of P_{∞} with the hydrocarbon pressures initially present in the containers before the experiment was begun. This comparison is illustrated below.

INITIAL AND ULTIMATE PRESSURES

Sample No.	P_{∞} , torr	P_{HC} , torr
530	34	150
1939	1650	200
2119	77	249
2538	319	430
2832	(120)	108

Except for the case of sample 1939 (Figure B), values of P_{∞} are less than the initial hydrocarbon pressures. This is to be expected if any appreciable gas was lost during the pump-out procedure. Samples 1939 and 2538 have large "a" values indicating relatively large gas capacities. Sample 1939, however, has a very small diffusion coefficient and 2538 has a relatively large diffusion coefficient. Thus, most of the gas present in 1939 was retained during the handling and experimental procedures, but it appears that much of the gas originally present in 2538 could have been lost. This comparison is significant because it indicates possible errors in judgment of gas capacity by the usual procedure of measuring pressures after some period of time (usually 30 days). In the case of sample 1939, this time is obviously not long enough; for sample 2538, a significant portion of the gas could have been lost before it was sealed into the container. In any case, the variation of real capacities (as opposed to the physical dimensions of the sample) make the initial pressure measurement less meaningful. Although this measurement probably reflects the amount of gas readily available under the current sampling conditions, it does not reflect the fact that more efficient fracture of sample 1939 would result in release of much more gas than could be obtained from sample 2119. For example, if the sample radius

for 1939 had been 2.2 cm, the pressure expected after 65 days would be 355 torr. Furthermore, the simple pressure measurement probably underestimates the true original gas content of sample 2538.

Task 3. Chemical Characterization of Shales

Chemical analyses for carbon, hydrogen, nitrogen (C-H-N) and sulfur have been made of all I-2 (Clark County, Indiana) shales and most of the Y-1 (Allegany County, New York) samples. Tables 10 and 11 summarize the chemical characterization data for I-2 and Y-1 shales, respectively. The Indiana well, surprisingly, shows higher carbon content than would be expected from the gas contents. Carbon contents vary between 2.7 and 15.0 percent, whereas, hydrogen contents range from 0.7 to 1.7 percent. Sulfur values range between 0.8 to 4.4 percent by weight of solids. Figures 7 through 9 relate carbon, hydrogen, and sulfur values to hydrocarbon gas contents in the shales. Contrary to observation in previous wells, hydrocarbon gas contents appear to be inversely related to carbon, hydrogen, and sulfur contents.

The trend seen in the carbon and hydrogen contents as a function of depth is first a decrease in carbon and hydrogen down to about 200 feet; then a reverse trend (increase) is apparent below 200 feet depth (Figures 11 and 12). Sulfur contents tend to exhibit a (small somewhat steady) decrease with depth (if any) (Figure 13). The fact that both carbon and hydrogen contents vary with depth in a similar manner points to the possibility that the carbon and hydrogen come from a common source and this source is organic (since the carbonate content in the Devonian gas shales is very low). As also mentioned in the discussion of physical characterization data, decrease in the bulk density values, a function of carbon and hydrogen contents, supports the claim that the main source of carbon and hydrogen (Figures 15 and 16) is organic in nature (organic compounds are generally less dense than inorganic minerals).

Table 11 summarizes the partial data on chemical characterization of the Y-1 (Allegany County, New York) well. The measured carbon contents are surprisingly low compared with the hydrocarbon gas contents. This is somewhat contrary to observations of the previous wells where the general observation has been the association of high carbon contents with high hydrocarbon gases. The positive relationship between the hydrocarbon gas and carbon contents, however, is somewhat apparent still as shown in Figure 23. The Y-1 well shows higher H/C atomic ratios than the previous well, indicating that inorganic minerals are also a source of hydrogen (in the form of water) in addition to organic compounds (such as kerogen).

Though the variation in the data is wide, Figure 25 reveals a positive relationship between the sulfur and the hydrocarbon gas contents. Increasing hydrocarbon gas content is apparent with increasing sulfur contents. Also, a trend of slight increasing carbon contents with depth is detectable in Figure 27. A similar relationship is not apparent for the hydrogen values plotted in Figure 28. The increase in the sulfur contents with depth is also rather apparent, as shown in Figure 30.

Task 4. Summary of Physical Characterizations

Some of the physical characterization data (densities and surface area) for the I-2 (Clark County, Indiana) well are summarized in Table 12. These shales exhibit considerably lower bulk and true densities than the shales previously characterized. This observation is in line with the organic content of these shales (Table 10) and lack of mechanical integrity observed in these shales. As the plot in Figure 15 indicates bulk density steadily decreases with increasing carbon contents. The lack of mechanical integrity in the shales made it very difficult to measure the bulk densities. Very close bulk and true density values in Table 12 reflect the consequence of this difficulty. The relationship observed between bulk density and carbon contents also holds true between bulk density and hydrogen contents (Figure 16) and between bulk density and sulfur contents (Figure 17).

Once again, decreasing bulk density values with carbon, hydrogen, and sulfur contents indicates that these elements (C, H, and S) mostly come from organic sources. Scarcity of carbonate minerals in these shales further supports this conclusion.

The surface area values reported in Table 12 show no apparent relationship to either chemical or other physical characteristics.

Mercury intrusion porosities were increased on half of the I-2 well samples. Measured porosities ranged between 5 and 7 percent which are within the range found in the previous studies of other shales. The mercury intrusion porosity data are given in Appendix A.

The physical characterization data on the Y-1 (Allegany County, New York) shales are depicted in Table 14 with the statistical analysis provided in Table 15. For the 58 samples the bulk densities have a mean value of 2.610 and true density of 2.704 with a standard deviation of 0.12 and variance of 0.01. Mean value of surface area is 2.54 with a standard deviation of 1.18 and a variance of 1.39.

Mercury intrusion porosity results of the Y-1 shales are given in Appendix B. The porosity values calculated from the bulk and true densities and obtained by the mercury intrusion method are in reasonable agreement, with wider scatter observed in the values calculated from the density data.

High values of bulk densities are indications of the low carbon contents. Also, the usually observed positive relationship between the bulk density and carbon contents is not quite apparent as illustrated in Figure 28. At least the wide variation in the data prevents one from drawing such a conclusion. The same observation is also true for hydrogen and sulfur values depicted in Figures 32 and 33, respectively. The inverse relationship between the bulk density and porosity, however, is quite noticeable as illustrated in Figure 36.

Task 5. Lithology of Shales

The Y-1 shale samples examined are characterized by variable clay mineral and quartz contents, and generally low pyrite, carbonate minerals, and organic material contents. Chemical and physical characterization data support the low organic content observed microscopically.

Based on examination of powders using the petrographic microscope the illite contents of the samples range from high to very low, the converse being true of the quartz contents. Quartz grain size varies from 10 to 20 μm in sample Y-1-1751 to coarser sizes in the other samples, the largest being in sample Y-1-1440 where the range is 15 to 80 μm . As usual, pyrite grain sizes, which are generally sparse, range mostly in the 5 to 10 μm size.

Sample, Y-1-1330, examined in the powder form but not by SEM, appeared to have a more abundant pyrite content, and coarser single crystal fragments of carbonate minerals, though in small amounts.

In Table 16 are presented EDAX results obtained using the SEM. With one exception these results are in good agreement with microscopic observations of powder samples. Samples Y-1-1440 and Y-1-1909 appeared to be very low in illite and very high in quartz contents. This is reflected in the low K and high Si contents, or low K/Si ratios, shown in Table 16. The exception is sample Y-1-1440 which appears to have a high quartz content in the powder sample examined, whereas the EDAX results using a fragment of the shale show a high K and low Si content, indicating a high illite, low quartz content. Additional examination will be made of the Y-1-1440 sample.

The low pyrite and carbonate mineral contents noted in the powder examinations are supported in the low contents of S and Ca in Table 16. Occasionally Cl is noticeable in small amounts in EDAX results and is thought to be attributable to contamination from handling the specimen. However, the contents detected in samples Y-1-1440 and particularly Y-1-1592 were listed in Table 16 because care is generally taken in handling the sample and the content of Y-1-1592 is relatively high.

Figures 27 through 42 are SEM micrographs of the samples examined. Typically, these random views do not give the impression of the variability in clay mineral and quartz contents indicated in the powder examinations and EDAX results.

Task 6. Future Studies

Testing and analysis of additional shale samples from Wetzel County, West Virginia and Johnson County, Kentucky will continue along with a complete statistical analysis of the Allegany County, New York well will be made during the next reporting period.

FIGURE 1.

FIGURE 2.

FIGURE 3.

FIGURE 4. EXPERIMENTAL AND CALCULATED GAS RELEASE RATES

FIGURE 5. EXPERIMENTAL AND CALCULATED GAS RELEASE RATES

FIGURE 6. EXPERIMENTAL AND CALCULATED GAS RELEASE RATES

FIGURE 7.

FIGURE 8.

FIGURE 9.

FIGURE 10.

FIGURE 11.

FIGURE 12.

FIGURE 13.

FIGURE 14.

FIGURE 15.

FIGURE 16:

FIGURE 17.

FIGURE 18.

FIGURE 19.

FIGURE 20.

FIGURE 21.

WELL Y 1

FIGURE 22.

WELL Y 1

FIGURE 23.

WELL Y 1

FIGURE 24.

WELL Y 1

FIGURE 25.

WELL Y 1

FIGURE 26.

WELL Y 1

FIGURE 27.

WELL Y 1

FIGURE 28.

WELL Y 1

FIGURE 29.

WELL Y 1

FIGURE 30.

WELL Y 1

FIGURE 31.

WELL Y 1

WELL Y 1

FIGURE 33.

WELL Y 1

FIGURE 34.

FIGURE 35.

WELL Y 1

FIGURE 36.

700X

FIGURE 37. SEM PHOTOMICROGRAPH OF SHALE Y-1-372.

700X

FIGURE 38. SEM PHOTOMICROGRAPH OF SHALE Y-1-975

700X

FIGURE 39. SEM PHOTOMICROGRAPH OF SHALE Y-1-1440

700X

FIGURE 40. SEM PHOTOMICROGRAPH OF SHALE Y-1-1592

700X

FIGURE 41. SEM PHOTOMICROGRAPH OF SHALE Y-1-1751

700X

FIGURE 42. SEM PHOTOMICROGRAPH OF SHALE Y-1-1909

TABLE 1. WELL DATA FOR 1- 2

LOCATION: CLARK COUNTY, IN

ALTITUDE: 615 FEET

COORDINATES: 85.47 (DEGREES.MINUTES) LONGITUDE
38.34 (DEGREES.MINUTES) LATITUDE

CORING BEGAN AT 124 FEET AND STOPPED AT 243 FEET. IT TOOK 8 BARRELS TO COMPLETE.

SAMPLES WERE RETURNED TO BATTIELE ON 8/21/78.

THERE WERE 11 SAMPLES COLLECTED FOR BATTIELE AND 25 SAMPLES COLLECTED FOR OTHERS.

RUN INFORMATION FROM WELL 1- 2

RUN NO. 1 CORING BEGAN AT 124 FEET AND CORING STOPPED AT 139 FEET. THE AVERAGE CORING RATE IS 26.73 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN .67 HOURS

RUN NO. 2 CORING BEGAN AT 139 FEET AND CORING STOPPED AT 154 FEET. THE AVERAGE CORING RATE IS 7.40 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN .70 HOURS

RUN NO. 3 CORING BEGAN AT 154 FEET AND CORING STOPPED AT 169 FEET. THE AVERAGE CORING RATE IS 6.20 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN .70 HOURS

RUN NO. 4 CORING BEGAN AT 169 FEET AND CORING STOPPED AT 183 FEET. THE AVERAGE CORING RATE IS 6.50 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN .60 HOURS

RUN NO. 5 CORING BEGAN AT 183 FEET AND CORING STOPPED AT 198 FEET. THE AVERAGE CORING RATE IS 6.87 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN .62 HOURS

RUN NO. 6 CORING BEGAN AT 198 FEET AND CORING STOPPED AT 213 FEET. THE AVERAGE CORING RATE IS 7.13 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN .60 HOURS

TABLE 1. (Continued)

RUN INFORMATION FROM WELL CONTINUED 1-

RUN NO. 7	CORING BEGAN AT 213 FEET AND CORING STOPPED AT 228 FEET. THE AVERAGE CORING RATE IS 8.13 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN .60 HOURS
RUN NO. 8	CORING BEGAN AT 228 FEET AND CORING STOPPED AT 243 FEET. THE AVERAGE CORING RATE IS 7.33 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN .75 HOURS

TABLE 2. FIELD SAMPLING DATA FOR WELL 1 2

SAMPLE ID.	COLOR	ON	BARREL AC	SEC AC.
		SURFACE TIME		
1 2- 135.	N2	.72	1	1
1 2- 149.	SYR2/1	1.10	2	2
1 2- 159.	SYR2/1	.88	3	3
1 2- 169.	SGGYR2	.63	4	4
1 2- 179.	SGGYR2	.60	4	5
1 2- 189.	SYR2Y4	.60	5	6
1 2- 199.	SYR2/1	.45	6	7
1 2- 209.	SYR2/1	.68	6	8
1 2- 219.	SYR2/1	.47	7	9
1 2- 229.	SYR2/1	.43	8	10
1 2- 239.	SYR2/1	.60	8	11
MEAN EXPOSURE TIME		.69		
STANDARD DEVIATION OF EXPOSURE TIME		.20		

TABLE 3. WELL DATA FOR Y- 1

LOCATION: ALLEGANY COUNTY, NY

ALTITUDE: 1850 FEET

COORDINATES: 77.49 (DEGREES.MINUTES) LONGITUDE
42.21 (DEGREES.MINUTES) LATITUDE

CORING BEGAN AT 370 FEET AND STOPPED AT 2926 FEET. IT TOOK 29 BARRELS TO COMPLETE.

SAMPLES WERE RETURNED TO BATTELLE ON 9/21/78.

THERE WERE 165 SAMPLES COLLECTED FOR BATTELLE AND 247 SAMPLES COLLECTED FOR OTHERS.

RUN INFORMATION FROM WELL Y- 1

RUN NO. 1	CORING BEGAN AT 370 FEET AND CORING STOPPED AT 429 FEET. THE AVERAGE CORING RATE IS 7.66 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN .90 HOURS
RUN NO. 2	CORING BEGAN AT 429 FEET AND CORING STOPPED AT 488 FEET. THE AVERAGE CORING RATE IS 7.88 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.27 HOURS
RUN NO. 3	CORING BEGAN AT 488 FEET AND CORING STOPPED AT 546 FEET. THE AVERAGE CORING RATE IS 8.52 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.33 HOURS
RUN NO. 4	CORING BEGAN AT 963 FEET AND CORING STOPPED AT 1022 FEET. THE AVERAGE CORING RATE IS 8.54 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.50 HOURS
RUN NO. 5	CORING BEGAN AT 1328 FEET AND CORING STOPPED AT 1387 FEET. THE AVERAGE CORING RATE IS 8.71 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.93 HOURS
RUN NO. 6	CORING BEGAN AT 1378 FEET AND CORING STOPPED AT 1446 FEET. THE AVERAGE CORING RATE IS 7.59 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.23 HOURS

TABLE 3. (Continued)

RUN INFORMATION FROM WELL CONTINUED Y- 1

RUN NO. 7	CORING BEGAN AT 1446 FEET AND CORING STOPPED AT 1483 FEET. THE AVERAGE CORING RATE IS 7.30 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.98 HOURS
RUN NO. 8	CORING BEGAN AT 1483 FEET AND CORING STOPPED AT 1531 FEET. THE AVERAGE CORING RATE IS 6.77 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.10 HOURS
RUN NO. 9	CORING BEGAN AT 1531 FEET AND CORING STOPPED AT 1590 FEET. THE AVERAGE CORING RATE IS 8.42 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.40 HOURS
RUN NO. 10	CORING BEGAN AT 1590 FEET AND CORING STOPPED AT 1649 FEET. THE AVERAGE CORING RATE IS 7.70 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.00 HOURS
RUN NO. 11	CORING BEGAN AT 1649 FEET AND CORING STOPPED AT 1708 FEET. THE AVERAGE CORING RATE IS 7.41 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.38 HOURS
RUN NO. 12	CORING BEGAN AT 1708 FEET AND CORING STOPPED AT 1767 FEET. THE AVERAGE CORING RATE IS 8.58 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.55 HOURS
RUN NO. 13	CORING BEGAN AT 1767 FEET AND CORING STOPPED AT 1826 FEET. THE AVERAGE CORING RATE IS 8.78 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.53 HOURS
RUN NO. 14	CORING BEGAN AT 1826 FEET AND CORING STOPPED AT 1885 FEET. THE AVERAGE CORING RATE IS 8.95 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.45 HOURS
RUN NO. 15	CORING BEGAN AT 1885 FEET AND CORING STOPPED AT 1943 FEET. THE AVERAGE CORING RATE IS 8.83 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.67 HOURS
RUN NO. 16	CORING BEGAN AT 1944 FEET AND CORING STOPPED AT 2003 FEET. THE AVERAGE CORING RATE IS 8.19 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.28 HOURS
RUN NO. 17	CORING BEGAN AT 2003 FEET AND CORING STOPPED AT 2062 FEET. THE AVERAGE CORING RATE IS 8.89 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.52 HOURS
RUN NO. 18	CORING BEGAN AT 2062 FEET AND CORING STOPPED AT 2121 FEET. THE AVERAGE CORING RATE IS 9.44 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.43 HOURS

TABLE 3. (Continued)

RUN INFORMATION FROM WELL CONTINUED Y- 1

RUN NO. 19	CORING BEGAN AT 2122 FEET AND CORING STOPPED AT 2181 FEET. THE AVERAGE CORING RATE IS 7.93 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.55 HOURS
RUN NO. 20	CORING BEGAN AT 2181 FEET AND CORING STOPPED AT 2240 FEET. THE AVERAGE CORING RATE IS 11.41 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.48 HOURS
RUN NO. 21	CORING BEGAN AT 2240 FEET AND CORING STOPPED AT 2299 FEET. THE AVERAGE CORING RATE IS 7.66 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.68 HOURS
RUN NO. 22	CORING BEGAN AT 2299 FEET AND CORING STOPPED AT 2358 FEET. THE AVERAGE CORING RATE IS 8.63 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.55 HOURS
RUN NO. 23	CORING BEGAN AT 2486 FEET AND CORING STOPPED AT 2545 FEET. THE AVERAGE CORING RATE IS 7.39 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.73 HOURS
RUN NO. 24	CORING BEGAN AT 2545 FEET AND CORING STOPPED AT 2604 FEET. THE AVERAGE CORING RATE IS 6.95 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.52 HOURS
RUN NO. 25	CORING BEGAN AT 2606 FEET AND CORING STOPPED AT 2665 FEET. THE AVERAGE CORING RATE IS 7.71 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.73 HOURS
RUN NO. 26	CORING BEGAN AT 2723 FEET AND CORING STOPPED AT 2782 FEET. THE AVERAGE CORING RATE IS 7.32 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.70 HOURS
RUN NO. 27	CORING BEGAN AT 2782 FEET AND CORING STOPPED AT 2841 FEET. THE AVERAGE CORING RATE IS 7.32 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.45 HOURS
RUN NO. 28	CORING BEGAN AT 2841 FEET AND CORING STOPPED AT 2900 FEET. THE AVERAGE CORING RATE IS 7.17 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 1.87 HOURS
RUN NO. 29	CORING BEGAN AT 2900 FEET AND CORING STOPPED AT 2926 FEET. THE AVERAGE CORING RATE IS 7.89 MINUTES PER FOOT. THE SAMPLES WERE ON THE SURFACE IN 2.08 HOURS

TABLE 4. FIELD SAMPLING DATA FOR WELL Y 1

SAMPLE ID.	COLOR	ON SURFACE TIME	BARREL NO	SEQ. NO.
Y 1- 372.	N4	1.62	1	1
Y 1- 382.	N4	1.68	1	2
Y 1- 392.	N4	2.03	1	3
Y 1- 402.	N5/5Y4	2.15	1	4
Y 1- 412.	N4	2.30	1	5
Y 1- 422.	N4	2.40	1	6
Y 1- 431.	N3	1.10	2	7
Y 1- 441.	N3	1.28	2	8
Y 1- 451.	N4	1.43	2	9
Y 1- 461.	N4	1.52	2	10
Y 1- 471.	N4	1.63	2	11
Y 1- 481.	N4	1.78	2	12
Y 1- 491.	5Y2/1	1.12	3	13
Y 1- 501.	N4	1.20	3	14
Y 1- 521.	5Y2/1	1.32	3	15
Y 1- 530.	5GY4/1	1.43	3	16
Y 1- 541.	N6	1.70	3	17
Y 1- 965.	N4	1.73	4	18
Y 1- 975.	N4	1.87	4	19
Y 1- 985.	N4	2.02	4	20
Y 1- 995.	N4	2.15	4	21
Y 1-1005.	N4	2.33	4	22
Y 1-1014.	N4	2.40	4	23
Y 1-1330.	N2	.77	5	24
Y 1-1340.	5Y2/1	.93	5	25
Y 1-1350.	N4/5Y2	1.03	5	26
Y 1-1360.	N4	1.20	5	27
Y 1-1370.	N4	1.30	5	28
Y 1-1380.	N3	1.53	5	29
Y 1-1390.	N4/N5	.70	6	30
Y 1-1400.	N5	.82	6	31
Y 1-1410.	N4	.97	6	32
Y 1-1420.	N3	1.13	6	33
Y 1-1430.	N4	1.25	6	34
Y 1-1440.	N5	1.37	6	35
Y 1-1449.	N4	.67	7	36
Y 1-1459.	N4	.88	7	37
Y 1-1469.	N4	1.03	7	38
Y 1-1479.	N4	1.18	7	39
Y 1-1484.	N4	.75	8	40
Y 1-1494.	N4	.92	8	41
Y 1-1504.	N4	1.05	8	42
Y 1-1514.	N4	1.22	8	43
Y 1-1524.	N5	1.37	8	44

TABLE 4. (Continued)
FIELD SAMPLING DATA FOR WELL Y 1

SAMPLE ID.	COLOR	ON SURFACE TIME	BARREL NO	SEQ NO.
Y 1-1533.	N4	.70	9	45
Y 1-1543.	N4	.87	9	46
Y 1-1553.	N4	.98	9	47
Y 1-1563.	N4	1.10	9	48
Y 1-1573.	N4	1.20	9	49
Y 1-1583.	N4	1.37	9	50
Y 1-1592.	N4	.85	10	51
Y 1-1602.	N4	1.05	10	52
Y 1-1612.	N4	1.17	10	53
Y 1-1622.	N4	1.30	10	54
Y 1-1632.	N4	1.45	10	55
Y 1-1642.	N4	1.53	10	56
Y 1-1652.	N4	.77	11	57
Y 1-1662.	N4	.90	11	58
Y 1-1672.	5YR2/1	1.07	11	59
Y 1-1682.	N4	1.30	11	60
Y 1-1692.	N4	1.47	11	61
Y 1-1703.	N4	1.68	11	62
Y 1-1711.	N5	.60	12	63
Y 1-1721.	N5	.75	12	64
Y 1-1731.	N5	.88	12	65
Y 1-1741.	N4/N3	1.30	12	66
Y 1-1751.	N4	1.45	12	67
Y 1-1761.	N4	1.55	12	68
Y 1-1770.	N4	.73	13	69
Y 1-1780.	N4	.90	13	70
Y 1-1790.	N4	1.02	13	71
Y 1-1800.	N4	1.22	13	72
Y 1-1810.	N4	1.35	13	73
Y 1-1820.	N4	1.48	13	74
Y 1-1830.	N3	.82	14	75
Y 1-1840.	N3	.93	14	76
Y 1-1850.	N4	1.12	14	77
Y 1-1860.	N3	1.23	14	78
Y 1-1870.	N4	1.35	14	79
Y 1-1880.	N4	1.43	14	80
Y 1-1889.	N4	.83	15	81
Y 1-1899.	N4	.97	15	82
Y 1-1909.	N4	1.08	15	83
Y 1-1919.	N4	1.18	15	84
Y 1-1929.	N4	1.25	15	85
Y 1-1939.	N3	1.37	15	86
Y 1-1947.	N4	.70	16	87
Y 1-1957.	5Y2/1	.93	16	88
Y 1-1967.	N4	.88	16	89

TABLE 4. (Continued)
FIELD SAMPLING DATA FOR WELL Y 1

SAMPLE ID.	COLOR	ON SURFACE TIME	BARREL NO	SEQ NO.
Y 1-1977.	N4	.95	16	90
Y 1-1987.	N3	1.03	16	91
Y 1-1997.	N4	1.13	16	92
Y 1-2006.	N4	.78	17	93
Y 1-2016.	N4	.85	17	94
Y 1-2026.	N3	.95	17	95
Y 1-2036.	N3	1.08	17	96
Y 1-2046.	N4	1.25	17	97
Y 1-2056.	N4	1.32	17	98
Y 1-2065.	5Y2/1	.52	18	99
Y 1-2075.	5Y2/1	.58	18	100
Y 1-2085.	N4	.72	18	101
Y 1-2095.	N4	.68	18	102
Y 1-2105.	N3	1.00	18	103
Y 1-2115.	N3	1.10	18	104
Y 1-2119.	5Y2/1	1.17	18	105
Y 1-2125.	N3	.80	19	106
Y 1-2135.	N4	.90	19	107
Y 1-2145.	N2	1.05	19	108
Y 1-2155.	N3	1.23	19	109
Y 1-2165.	N2	1.35	19	110
Y 1-2175.	N2	1.48	19	111
Y 1-2184.	N4/N2	.73	20	112
Y 1-2194.	N3	.93	20	113
Y 1-2204.	N4	1.07	20	114
Y 1-2214.	N4	1.18	20	115
Y 1-2224.	N4	1.28	20	116
Y 1-2234.	N5	1.40	20	117
Y 1-2243.	N4	.43	21	118
Y 1-2253.	N4	.60	21	119
Y 1-2263.	N4	.70	21	120
Y 1-2273.	N4	.82	21	121
Y 1-2283.	N4	.92	21	122
Y 1-2293.	N4	1.00	21	123
Y 1-2302.	N4	.75	22	124
Y 1-2312.	N2/N4	.83	22	125
Y 1-2322.	N3	.95	22	126
Y 1-2332.	5YR2/1	1.05	22	127
Y 1-2342.	N3	1.17	22	128
Y 1-2352.	N4	1.37	22	129
Y 1-2408.	N3	.67	23	130
Y 1-2498.	5YR2/1	.88	23	131
Y 1-2504.	5YR2/1	.98	23	132
Y 1-2518.	5YR2/1	1.08	23	133
Y 1-2528.	5YR2/1	1.20	23	134

TABLE 4. (Continued)
FIELD SAMPLING DATA FOR WELL Y 1

SAMPLE ID.	COLOR	ON SURFACE TIME	BARREL NO	SEQ NO.
Y 1-2538.	5YR2/1	1.38	23	135
Y 1-2548.	N4	1.02	24	136
Y 1-2558.	N3	1.10	24	137
Y 1-2558.	5YR2/1	1.18	24	138
Y 1-2578.	5YR2/1	1.28	24	139
Y 1-2588.	5YR2/1	1.37	24	140
Y 1-2598.	N2	1.53	24	141
Y 1-2607.	5YR2/1	.65	25	142
Y 1-2617.	5YR2/1	.77	25	143
Y 1-2627.	5YR2/1	.87	25	144
Y 1-2637.	N3	1.02	25	145
Y 1-2647.	N4	1.17	25	146
Y 1-2657.	N4	1.15	25	147
Y 1-2725.	5Y4/1	.80	26	148
Y 1-2735.	N3	.97	26	149
Y 1-2745.	5YR2/1	1.08	26	150
Y 1-2755.	5Y4/1	1.18	26	151
Y 1-2765.	N4	1.28	26	152
Y 1-2775.	5YR2/1	1.43	26	153
Y 1-2784.	N2	.88	27	154
Y 1-2794.	N3	1.02	27	155
Y 1-2804.	N3	1.12	27	156
Y 1-2814.	N2	1.17	27	157
Y 1-2824.	N3	1.27	27	158
Y 1-2832.	5YR2/1	1.57	27	159
Y 1-2844.	5YR2/1	.88	28	160
Y 1-2854.	5YR2/1	1.00	28	161
Y 1-2864.	5YR2/1	1.10	28	162
Y 1-2874.	5YR2/1	1.20	28	163
Y 1-2884.	5YR2/1	1.37	28	164
Y 1-2894.	5YR2/1	1.57	28	165

MEAN EXPOSURE TIME 1.16
STANDARD DEVIATION OF EXPOSURE TIME .37

TABLE 5. INITIAL GAS RELEASE DATA: WELL I 2

SAMPLE ID	PRESSURE TORR	FREE	COPE	OPEN	GAS COMPOSITION, VOLUME PERCENT								GAS RELEASED/		
		VOLUME CC	VOLUME CC	POROSITY PCT.	METHANE	ETHANE	PROPANE	BUTANE	PENTANE	HYDROG.	NITROGEN	OXYGEN	CARBON DIOXIDE	UNIT VOLUME OF SHALE	SEQ NO.
I 2- 135.	800.	552.	898.	0.00	18.18	4.13	1.06	.03	.16	23.56	59.57	5.09	1.79	.15	1
I 2- 149.	715.	550.	900.	0.00	11.67	1.28	.62	.07	0.00	13.64	76.95	5.50	3.75	.08	2
I 2- 159.	730.	598.	862.	.67	9.29	2.12	.63	.10	0.00	12.14	75.34	9.87	2.66	.08	3
I 2- 159.	725.	593.	857.	0.00	4.40	1.19	.43	.07	0.00	6.09	77.45	14.88	1.58	.04	4
I 2- 179.	748.	784.	665.	5.72	3.76	6.81	.30	.07	0.00	10.94	71.94	16.55	.57	.13	5
I 2- 189.	745.	725.	725.	4.02	4.22	.89	.40	.09	0.00	5.60	77.53	15.52	1.36	.05	6
I 2- 199.	748.	559.	491.	0.00	6.98	1.52	.71	.23	.05	9.49	75.32	13.55	1.64	.06	7
I 2- 209.	725.	663.	787.	0.00	5.56	1.87	.89	.19	0.00	8.51	75.94	14.06	1.53	.07	8
I 2- 219.	745.	663.	787.	0.00	3.97	1.04	.46	.12	.11	5.70	76.90	16.55	.92	.05	9
I 2- 229.	745.	809.	641.	0.00	3.93	1.13	.46	.11	.01	5.64	75.60	18.29	.51	.07	10
I 2- 239.	740.	521.	929.	0.00	7.11	1.50	.67	.18	.05	9.51	73.94	15.51	1.03	.05	11

TABLE 6. STATISTICAL ANALYSES OF OFF GAS DATA

WELL I 2							
	MEAN	STANDARD DEVIATION	VARIANCE	COEFFICIENT OF DEVIATION	95 PCT. CONFIDENCE INTERVAL		NO OF SAMPLES
					LOWER LIMIT	UPPER LIMIT	
METHANE, PERCENT	7.188	4.44	19.73	.62	4.204	10.172	11
ETHANE, PERCENT	2.135	1.79	3.21	.84	.932	3.338	11
PROPANE, PERCENT	.603	.23	.05	.38	.451	.755	11
BUTANE, PERCENT	.115	.06	.00	.53	.074	.156	11
PENTANE, PERCENT	.035	.05	.00	1.58	0.000	.071	11
TOTAL HYDROCARBONS, PST	10.075	5.27	27.74	.52	6.536	13.613	11
NITROGEN, PERCENT	75.135	2.47	6.11	.03	73.475	76.794	11
OXYGEN, PERCENT	13.215	4.46	19.89	.34	10.219	16.211	11
CARBON DIOXIDE, PERCENT	1.576	.94	.89	.60	.943	2.209	11
GAS VOLUME/SHALE VOLUME	.075	.03	.00	.46	0.000	.099	11

*1 IS INSIGNIFICANT

TABLE 7. INITIAL GAS RELEASE DATA: WELL Y 1

01/05/79

SAMPLE ID	PRESSURE TORR	FREE VOLUME CC	CORE VOLUME CC	POROSITY PCT.	GAS COMPOSITION, VOLUME PERCENT								CARBON DIOXIDE	GAS RELEASED/ UNIT VOLUME OF SHALE	SEQ NO.
					METHANE	ETHANE	PROPANE	BUTANE	PENTANE	HYDROC.	TOTAL	NITROGEN	OXYGEN		
Y 1- 372.	725.	624.	826.	16.58	.59	.19	.16	.01	0.00	.95	79.76	16.82	2.45	.01	1
Y 1- 382.	725.	754.	696.	0.00	.67	0.00	0.00	0.00	0.00	.67	78.63	20.34	.38	.01	2
Y 1- 392.	720.	546.	904.	10.77	.93	.09	.03	.01	0.00	1.06	80.13	18.14	.68	.01	3
Y 1- 402.	720.	568.	882.	6.51	.73	.06	0.00	0.00	0.00	.79	79.68	18.74	.82	.00	4
Y 1- 412.	730.	721.	729.	5.95	.58	.13	.18	.03	0.00	.92	79.23	19.41	.46	.01	5
Y 1- 422.	725.	817.	533.	1.37	.42	.11	.05	.01	0.00	.59	78.80	20.33	.26	.01	6
Y 1- 431.	740.	955.	495.	0.00	.40	.17	.13	.03	0.00	.73	77.87	20.72	.65	.01	7
Y 1- 441.	735.	807.	643.	0.00	1.23	.45	.14	.04	0.00	1.92	78.36	19.16	.53	.02	8
Y 1- 451.	735.	558.	492.	10.67	1.95	.50	.21	.05	0.00	2.71	78.12	18.17	.99	.02	9
Y 1- 461.	730.	731.	719.	5.06	.82	.17	.14	.02	0.00	1.15	78.38	19.93	.50	.01	10
Y 1- 471.	740.	663.	787.	1.52	1.61	.34	.23	.03	0.00	2.21	77.55	19.81	.39	.02	11
Y 1- 481.	745.	762.	668.	2.53	1.86	.44	.27	.04	0.00	2.61	76.54	20.56	.29	.03	12
Y 1- 491.	725.	905.	545.	1.21	1.09	.25	.15	.03	0.00	1.52	77.14	20.80	.56	.02	13
Y 1- 501.	725.	823.	527.	9.23	2.06	.40	.12	.04	0.00	2.62	76.29	18.75	2.33	.03	14
Y 1- 521.	730.	512.	938.	8.26	35.84	5.44	2.12	.69	.15	44.24	47.45	6.57	1.63	.23	15
Y 1- 965.	740.	802.	648.	1.74	3.10	.30	.16	.02	0.00	3.58	76.90	18.80	.69	.04	18
Y 1- 975.	740.	682.	768.	7.97	5.56	0.00	.39	.08	0.00	6.03	76.30	16.00	.99	.05	19
Y 1- 985.	745.	659.	791.	0.00	5.65	.30	.30	.05	0.00	6.30	75.20	17.50	.64	.05	20
Y 1- 995.	1100.	627.	923.	10.19	31.30	4.81	1.96	.52	.12	38.71	51.30	9.28	.73	.43	21
Y 1-1014.	950.	734.	716.	4.93	8.39	6.32	8.63	5.74	2.21	31.29	61.53	3.75	3.47	.40	23
Y 1-1330.	1200.	650.	800.	2.74	33.52	7.34	3.14	.93	.25	45.18	49.30	4.30	1.25	.58	24
Y 1-1340.	1225.	582.	868.	0.00	35.90	6.92	2.17	.59	.15	45.73	46.30	7.41	.66	.49	25
Y 1-1350.	1060.	474.	976.	.75	30.63	4.92	2.16	.70	.12	38.53	54.40	6.26	.87	.26	26
Y 1-1360.	750.	666.	784.	9.05	6.20	.13	.24	.03	0.00	6.60	74.10	18.05	.72	.06	27
Y 1-1370.	750.	616.	834.	.90	6.45	0.00	0.00	0.00	0.00	6.45	74.80	18.00	.74	.05	28
Y 1-1380.	900.	579.	871.	7.03	19.60	2.21	1.15	.27	.03	23.26	63.60	12.40	.65	.18	29
Y 1-1390.	700.	688.	762.	5.61	5.10	.25	.24	.03	0.00	5.62	76.10	17.40	.63	.05	30
Y 1-1400.	780.	711.	739.	2.89	12.00	2.30	.57	.05	.02	14.94	72.60	13.60	1.20	.15	31
Y 1-1410.	750.	716.	734.	4.90	5.07	.55	.15	.02	0.00	5.79	75.58	18.04	.62	.06	32
Y 1-1420.	1500.	426.	1024.	.30	29.67	5.63	1.85	.43	.11	37.69	50.78	11.24	.31	.31	33
Y 1-1430.	750.	695.	755.	5.27	5.10	.57	.21	.02	0.00	5.90	75.89	17.80	.45	.05	34
Y 1-1440.	750.	623.	827.	2.01	6.96	.92	.50	.21	.11	8.70	78.80	11.91	.57	.06	35
Y 1-1449.	350.	559.	891.	2.00	15.64	1.79	.77	.14	0.00	18.34	67.93	12.78	.95	.05	36
Y 1-1459.	900.	548.	902.	2.12	19.13	2.42	.74	.14	.39	22.87	64.23	12.24	.97	.16	37
Y 1-1469.	800.	495.	955.	0.00	10.63	.99	.37	.07	0.00	12.06	70.27	17.03	.64	.07	38
Y 1-1479.	750.	715.	735.	0.00	3.86	.39	.16	0.00	0.00	4.41	75.33	19.54	.67	.04	39
Y 1-1484.	750.	835.	615.	0.00	4.38	.57	.27	.02	0.00	5.24	76.53	17.59	.66	.07	40
Y 1-1494.	800.	600.	950.	3.48	8.58	1.02	.44	.09	.01	10.14	73.39	15.75	.75	.08	41
Y 1-1504.	900.	722.	728.	1.23	20.33	3.02	1.03	.27	.07	24.78	63.06	11.05	1.11	.29	42
Y 1-1514.	1100.	654.	796.	6.60	33.00	3.99	1.62	.37	.11	39.09	51.28	9.20	.44	.46	43
Y 1-1524.	800.	719.	731.	10.06	11.11	1.74	.79	1.82	.05	15.51	73.33	10.86	1.95	.16	44
Y 1-1533.	750.	602.	848.	11.83	8.19	.92	.39	.04	0.00	9.54	73.40	16.37	.68	.07	45
Y 1-1543.	800.	593.	857.	3.19	12.37	1.93	1.00	.20	.05	15.55	71.75	11.59	1.08	.11	46
Y 1-1553.	750.	597.	853.	2.72	6.57	.73	.33	.04	0.00	7.67	62.29	14.06	.42	.05	47
Y 1-1563.	750.	721.	729.	0.00	4.90	.58	.20	.03	0.00	5.71	75.45	18.60	.27	.06	48

TABLE 8. STATISTICAL ANALYSES OF OFF GAS DATA

01/05/79

WELL Y 1

	MEAN	STANDARD DEVIATION	VARIANCE	COEFFICIENT OF DEVIATION	95 PCT. CONFIDENCE INTERVAL		NO OF SAMPLES
					LOWER LIMIT	UPPER LIMIT	
METHANE, PERCENT	13.040	10.91	119.10	.84	10.725	15.355	88
ETHANE, PERCENT	2.301	2.34	5.46	1.02	1.805	2.797	88
PROPANE, PERCENT	1.094	1.24	1.55	1.14	.830	1.358	88
BUTANE, PERCENT	.316	.66	.44	2.09	.176	.456	88
PENTANE, PERCENT	.085	.24	.06	2.86	.034	.137	88
TOTAL HYDROCARBONS, PCT	16.837	14.30	204.47	.85	13.804	19.870	88
NITROGEN, PERCENT	68.983	9.82	96.38	.14	66.900	71.065	88
OXYGEN, PERCENT	13.010	5.59	31.26	.43	11.824	14.196	88
CARBON DIOXIDE, PERCENT	1.026	.69	.48	.68	.879	1.173	88
GAS VOLUME/SHALE VOLUME	.150	.15	.02	1.02	.118	.183	88

*1 IS INSIGNIFICANT

TABLE 9. COMPARATIVE HYDROCARBON GAS ANALYSIS

WELL Y 1 01/09/79

SAMPLE NO.	METHANE (1)	ETHANE (2)	PROPANE (3)	BUTANE (4)	PENTANE (5)	MOLAR BASIS		METHANE EQUIVALENTS	
						TOTAL HYDROCARB	(2+3+4+5)/1	TOTAL HYDROCARB	(2+3+4+5)/1
372	.59	.19	.16	.01	0.00	.95	.61	1.35	1.30
382	.67	0.00	0.00	0.00	0.00	.67	0.00	.67	0.00
392	.93	.09	.03	.01	0.00	1.06	.14	1.19	.28
402	.73	.06	0.00	0.00	0.00	.79	.08	.84	.14
412	.58	.13	.18	.03	0.00	.92	.59	1.35	1.34
422	.42	.11	.05	.01	0.00	.59	.40	.77	.83
431	.40	.17	.13	.03	0.00	.73	.82	1.12	1.80
441	1.29	.45	.14	.04	0.00	1.92	.49	2.56	.98
451	1.95	.50	.21	.05	0.00	2.71	.39	3.51	.80
461	.82	.17	.14	.02	0.00	1.15	.40	1.53	.87
471	1.61	.34	.23	.03	0.00	2.21	.37	2.88	.79
481	1.86	.44	.27	.04	0.00	2.61	.40	3.43	.85
491	1.09	.25	.15	.03	0.00	1.52	.39	2.00	.83
501	2.06	.40	.12	.04	0.00	2.62	.27	3.19	.55
521	35.84	5.44	2.12	.69	.15	44.24	.23	53.70	.50
530	13.57	1.64	.73	.26	.05	16.25	.20	19.37	.43
541	41.60	6.58	5.31	3.30	1.33	58.12	.40	84.23	1.02
965	3.10	.30	.16	.02	0.00	3.58	.15	4.09	.32
975	5.56	0.00	.39	.08	0.00	6.03	.08	6.79	.22
985	5.65	.30	.30	.05	0.00	6.30	.12	7.09	.25
995	31.30	4.81	1.96	.52	.12	38.71	.24	46.95	.50
1005	35.46	7.14	2.49	.70	.17	45.96	.30	57.36	.62
1014	8.39	6.32	8.63	5.74	2.21	31.29	2.73	71.50	7.52
1330	33.52	7.34	3.14	.93	.25	45.18	.35	58.57	.75
1340	35.90	6.92	2.17	.59	.15	45.73	.27	56.15	.56
1350	30.63	4.92	2.16	.70	.12	38.53	.26	47.55	.55
1360	6.20	.13	.24	.03	0.00	6.60	.06	7.12	.15
1370	6.45	0.00	0.00	0.00	0.00	6.45	0.00	6.45	0.00
1380	19.60	2.21	1.15	.27	.03	23.26	.19	27.38	.40
1390	5.10	.25	.24	.03	0.00	5.62	.10	6.23	.22
1400	12.00	2.30	.57	.05	.02	14.94	.25	17.72	.48
1410	5.07	.55	.15	.02	0.00	5.79	.14	6.47	.28
1420	29.67	5.63	1.85	.43	.11	37.69	.27	46.13	.55
1430	5.10	.57	.21	.02	0.00	5.90	.16	6.69	.31
1440	6.96	.92	.50	.21	.11	8.70	.25	11.09	.59
1449	15.64	1.79	.77	.14	0.00	18.34	.17	21.15	.35
1459	19.18	2.42	.74	.14	.39	22.87	.19	27.82	.45
1469	10.63	.99	.37	.07	0.00	12.06	.13	13.51	.27
1479	3.86	.39	.16	0.00	0.00	4.41	.14	4.94	.28
1484	4.38	.57	.27	.02	0.00	5.24	.20	6.12	.40
1494	8.58	1.02	.44	.09	.01	10.14	.18	11.81	.38
1504	20.33	3.02	1.09	.27	.07	24.78	.22	29.59	.46
1514	33.00	3.99	1.62	.37	.11	39.09	.18	45.82	.39
1524	11.11	1.74	.79	1.82	.05	15.51	.40	22.28	1.01

TABLE 9. (Continued)
COMPARATIVE HYDROCARBON GAS ANALYSIS

WELL Y 1 01/03/79

SAMPLE NO.	MOLAR BASIS					METHANE EQUIVALENTS	
	METHANE (1)	ETHANE (2)	PROPANE (3)	BUTANE (4)	PENTANE (5)	TOTAL HYDROCARB (2+3+4+5)/1	TOTAL HYDROCARB (2+3+4+5)/1
1533	8.19	.92	.39	.04	0.00	9.54	.16
1543	12.37	1.93	1.00	.20	.05	15.55	.26
1553	6.57	.73	.33	.04	0.00	7.67	.17
1563	4.90	.58	.20	.03	0.00	5.71	.17
1573	10.79	1.78	.42	.04	0.00	13.02	.21
1583	8.12	.94	.30	.06	0.00	9.42	.16
1592	5.77	.88	.60	.10	0.00	7.35	.27
1602	8.37	1.12	.88	.16	.04	10.57	.26
1612	9.12	1.17	.80	.15	.04	11.28	.24
1622	9.84	1.43	.95	.15	.04	12.41	.26
1632	8.01	1.13	.55	.10	.03	9.82	.23
1642	18.71	2.47	1.09	.25	.06	22.58	.21
1652	7.23	1.53	.88	.26	.08	9.98	.38
1662	16.49	3.30	1.74	.48	.15	22.16	.34
1672	40.92	6.64	3.90	.93	.25	52.64	.29
1682	6.40	1.64	1.03	.20	.06	9.33	.46
1692	1.00	.16	.38	.02	0.00	1.56	.56
1703	9.64	1.47	1.07	.11	.02	12.31	.28
1711	4.65	.58	.41	.10	.03	5.77	.24
1721	7.93	1.12	.75	.07	0.00	9.87	.24
1731	13.63	1.60	.60	.11	.01	15.95	.17
1741	43.97	7.31	2.76	.62	.16	54.82	.25
1751	11.38	1.51	.66	.09	.01	13.65	.20
1761	3.85	.60	.44	.06	.01	4.96	.29
1770	22.97	3.67	2.43	.61	.19	29.87	.30
1780	22.75	2.67	2.39	.57	.18	28.56	.26
1790	6.76	1.09	.74	.07	0.00	8.66	.28
1800	13.83	2.56	1.25	.34	.10	18.08	.31
1810	19.22	3.71	1.54	.35	.09	24.91	.30
1820	13.92	2.76	1.56	.34	.11	18.69	.34
1830	22.22	3.58	3.53	1.01	.29	30.63	.38
1840	21.92	2.62	2.24	.58	.17	27.53	.26
1850	12.10	2.36	.75	.18	0.00	15.39	.27
1860	21.62	3.93	1.41	.34	.03	27.33	.26
1870	18.59	3.83	2.14	.36	.10	25.02	.35
1880	34.37	10.84	2.93	.67	.16	48.97	.42
1889	14.39	3.00	1.18	.17	.03	18.77	.30
1899	15.71	4.18	1.48	.36	.10	21.83	.39
1909	4.12	.95	.43	.10	.01	5.61	.36
1919	23.48	4.95	2.01	.62	.18	31.24	.33
1929	21.29	6.62	2.36	.67	.21	31.15	.46
1939	16.94	2.64	1.45	.38	.11	21.52	.27
1947	24.26	4.85	1.75	.54	.19	31.59	.30
1957	39.71	10.15	4.18	1.05	.32	55.41	.40

TABLE 9. (Continued)
COMPARATIVE HYDROCARBON GAS ANALYSIS

WELL Y 1 01/09/79

SAMPLE NO.	METHANE (1)	ETHANE (2)	PROPANE (3)	BUTANE (4)	PENTANE (5)	MOLAR BASIS TOTAL		METHANE EQUIVALENTS TOTAL	
						HYDROCARB	(2+3+4+5)/1	HYDROCARB	(2+3+4+5)/1
1967	20.51	4.44	1.22	.30	.06	26.53	.29	32.62	.59
1977	16.53	3.23	.98	.24	.03	21.01	.27	25.57	.55
1982	19.65	3.74	1.09	.25	.03	24.76	.26	29.89	.52
1997	12.04	2.06	.58	.08	0.00	14.76	.23	17.35	.44
2006	14.68	3.00	.78	.14	.01	18.61	.27	22.39	.52
2016	12.49	3.04	1.06	.20	.05	16.84	.35	21.38	.71
2026	22.14	5.64	1.85	.52	.15	30.30	.37	39.12	.77
2036	14.48	3.61	1.10	.23	.05	19.47	.34	24.56	.70
2046	9.79	1.40	.44	.03	0.00	11.66	.19	13.44	.37
2056	18.19	4.29	1.21	.30	.09	24.08	.32	30.18	.66
2065	41.95	8.97	4.73	1.41	.38	57.44	.37	76.08	.81
2075	38.42	8.97	2.98	.80	.23	51.40	.34	65.39	.70
2085	22.72	3.44	.94	.23	.03	27.36	.20	31.99	.41
2095	10.82	1.84	.51	.06	0.00	13.23	.22	15.51	.43
2105	30.59	6.98	2.04	.53	.15	40.29	.32	50.43	.65
2115	19.18	4.10	1.23	.32	.10	24.93	.30	31.00	.62
2119	18.92	6.43	2.71	.82	.13	29.01	.53	40.30	1.13
2125	21.32	5.74	1.86	.49	.14	29.55	.39	38.35	.80
2135	33.45	9.56	3.06	.91	.28	47.26	.41	62.28	.86
2145	25.62	8.49	3.09	.87	.25	38.32	.50	52.36	1.04
2155	46.55	14.90	6.28	1.77	.50	70.00	.50	96.74	1.08
2165	18.27	6.67	4.17	1.40	.54	31.05	.70	47.81	1.62
2175	24.83	6.13	1.85	.27	0.00	33.08	.33	41.05	.65
2184	30.96	8.42	4.92	1.31	.19	45.80	.48	63.25	1.04
2194	15.60	4.58	2.03	.51	.07	22.79	.46	30.72	.97
2204	12.99	3.39	1.35	.29	.03	18.04	.39	23.39	.80
2214	39.94	8.90	4.41	1.08	.15	54.48	.36	70.84	.77
2224	20.92	7.00	2.99	.82	.13	31.86	.52	44.00	1.10
2234	20.21	4.44	1.97	.58	.20	27.40	.36	35.86	.77
2243	25.17	4.14	1.21	.20	0.00	30.72	.22	36.09	.43
2253	21.30	4.01	1.22	.15	0.00	26.68	.25	31.95	.50
2263	14.01	1.67	.53	.33	0.00	16.54	.18	19.32	.38
2273	8.26	1.37	.36	.04	0.00	10.03	.21	11.59	.41
2283	23.58	3.97	.87	.14	0.00	28.56	.21	33.15	.41
2293	4.51	.70	.16	0.00	0.00	5.37	.19	6.14	.36
2302	8.57	1.57	.45	.07	0.00	10.66	.24	12.67	.48
2312	15.42	4.42	0.00	0.00	0.00	19.84	.29	23.16	.50
2322	38.71	12.40	4.03	.66	0.00	55.80	.44	72.62	.88
2332	43.12	11.52	5.02	1.19	.37	61.22	.42	81.67	.89
2342	34.01	7.41	1.79	.37	.12	43.70	.28	53.30	.57
2352	2.18	.21	.05	0.00	0.00	2.44	.12	2.67	.23
2488	29.13	13.09	5.62	1.69	.57	50.10	.72	74.62	1.56
2498	27.80	13.24	4.08	1.04	.31	46.47	.67	66.20	1.38
2508	25.23	15.71	6.34	1.64	.48	49.40	.96	76.46	2.03

TABLE 9. (Continued)
COMPARATIVE HYDROCARBON GAS ANALYSIS

WELL Y 1 01/09/79

SAMPLE NO.	METHANE (1)	ETHANE (2)	PROPANE (3)	BUTANE (4)	PENTANE (5)	MOLAR BASIS		METHANE EQUIVALENTS	
						TOTAL HYDROCARB	(2+3+4+5)/1	TOTAL HYDROCARB	(2+3+4+5)/1
2518	45.18	15.06	4.98	1.24	.39	66.85	.48	90.10	.99
2528	37.07	15.13	6.70	1.61	.55	61.06	.65	88.47	1.39
2538	23.00	8.73	4.10	1.37	0.00	37.20	.62	52.95	1.30
2548	28.48	14.55	5.96	1.73	.57	51.29	.80	77.51	1.72
2558	38.66	27.46	12.68	3.25	1.07	83.12	1.15	134.69	2.48
2568	43.70	18.20	8.55	2.54	.69	73.68	.69	108.86	1.49
2578	26.68	21.04	9.41	2.60	.83	60.56	1.27	99.90	2.74
2588	30.54	18.44	8.16	2.28	.74	60.16	.97	94.57	2.10
2598	51.17	15.59	4.68	1.15	.39	72.98	.43	95.97	.88
2607	36.96	22.25	11.53	3.54	1.11	75.39	1.04	122.15	2.30
2617	32.83	19.62	10.41	2.99	.74	66.59	1.03	106.94	2.25
2627	28.97	18.13	11.93	4.16	1.21	64.40	1.22	110.49	2.81
2637	53.07	16.42	4.91	1.20	.46	76.06	.43	100.44	.89
2647	45.22	16.31	6.74	1.73	.56	70.56	.56	99.22	1.19
2657	40.53	14.46	4.75	1.08	.32	61.14	.51	82.93	1.05
2725	43.50	16.70	6.29	1.57	.40	68.46	.57	95.68	1.20
2735	54.94	13.45	4.54	1.22	.31	74.46	.36	95.44	.74
2745	17.79	16.80	9.64	2.81	.83	47.87	1.69	84.85	3.77
2755	41.33	24.77	11.59	3.22	.99	81.90	.96	129.40	2.13
2765	57.00	11.19	3.66	.90	.24	72.99	.28	89.94	.58
2775	35.59	14.34	5.29	.92	.13	56.27	.58	77.58	1.18
2814	53.64	11.87	4.79	1.34	.39	72.03	.34	92.82	.73
2832	2.28	2.23	5.13	3.10	1.18	13.92	5.11	35.39	14.52

TABLE 10. CHEMICAL CHARACTERIZATION DATA, 10/30/78

SAMPLE ID	TOTAL CARBON PERCENT	TOTAL HYDROGEN PERCENT	TOTAL NITROGEN PERCENT	TOTAL SULFUR PERCENT	CARD CODE	SEQ NO.
I 2- 135.	14.5	1.7	.5	3.1	5	1
I 2- 149.	13.6	1.5	.5	4.3	5	2
I 2- 159.	15.0	1.6	.5	4.4	5	3
I 2- 169.	4.9	.7	.2	2.5	5	4
I 2- 179.	8.3	1.0	.3	2.8	5	5
I 2- 189.	2.7	.4	.1	.8	5	6
I 2- 199.	8.0	1.0	.2	2.7	5	7
I 2- 209.	5.3	.8	.2	1.8	5	8
I 2- 219.	6.3	.8	.2	1.9	5	9
I 2- 229.	10.7	1.3	.3	2.8	5	10
I 2- 239.	12.1	1.2	.4	1.2	5	11

TABLE 11. CHEMICAL CHARACTERIZATION DATA, 01/05/79

SAMPLE ID	TOTAL CARBON PERCENT	TOTAL HYDROGEN PERCENT	TOTAL NITROGEN PERCENT	TOTAL SULFUR PERCENT	CARD CODE	SEQ NO.
Y 1- 372.	.6	.5	.1	.1	5	1
Y 1- 382.	.3	.4	.1	.1	5	2
Y 1- 392.	1.1	.5	.1	.2	5	3
Y 1- 402.	.2	.4	.1	.4	5	4
Y 1- 412.	.3	.4	.1	.3	5	5
Y 1- 422.	.3	.5	.1	.3	5	6
Y 1- 431.	.4	.4	.1	.9	5	7
Y 1- 441.	.3	.3	.1	.2	5	8
Y 1- 451.	.3	.4	.1	.6	5	9
Y 1- 461.	.1	.3	.1	.4	5	10
Y 1- 471.	.3	.3	.1	.4	5	11
Y 1- 481.	.6	.3	.1	.5	5	12
Y 1- 491.	.3	.3	.1	.8	5	13
Y 1- 501.	.4	.4	.1	.5	5	14
Y 1- 521.	.3	.4	.1	.7	5	15
Y 1- 965.	.5	.3	.1	.1	5	18
Y 1- 975.	1.0	.4	.1	.4	5	19
Y 1- 985.	.5	.4	.1	.3	5	20
Y 1- 995.	1.4	.5	.1	1.5	5	21
Y 1-1014.	.6	.2	.1	1.0	5	23
Y 1-1330.	1.0	.5	.1	1.6	5	24
Y 1-1340.	1.1	.5	.1	1.6	5	25
Y 1-1350.	.4	.3	.1	1.6	5	26
Y 1-1360.	.3	.5	.1	.2	5	27
Y 1-1370.	.2	.5	.1	.1	5	28
Y 1-1380.	.2	.5	.1	1.3	5	29
Y 1-1390.	.4	.3	.1	.1	5	30
Y 1-1400.	.6	.4	.1	.1	5	31
Y 1-1410.	.3	.5	.1	.1	5	32
Y 1-1420.	1.2	.5	.1	1.3	5	33
Y 1-1430.	.1	.5	.1	.2	5	34
Y 1-1440.	.4	.2	.1	.1	5	35
Y 1-1449.	.3	.3	.1	.1	5	36
Y 1-1459.	.6	.5	.1	.3	5	37
Y 1-1469.	.5	.3	.1	.1	5	38
Y 1-1479.	.3	.4	.1	.1	5	39
Y 1-1484.	.3	.5	.1	.1	5	40
Y 1-1494.	.2	.4	.1	.2	5	41
Y 1-1504.	1.2	.5	.2	1.4	5	42
Y 1-1514.	.8	.5	.1	2.4	5	43
Y 1-1524.	.3	.5	.1	.6	5	44
Y 1-1533.	.7	.6	.1	.1	5	45
Y 1-1543.	.3	.5	.1	.2	5	46
Y 1-1553.	.3	.5	.1	.1	5	47
Y 1-1563.	.2	.4	.1	.1	5	48

TABLE 11. (Continued)
CHEMICAL CHARACTERIZATION DATA, 01/05/79

SAMPLE ID	TOTAL CARBON PERCENT	TOTAL HYDROGEN PERCENT	TOTAL NITROGEN PERCENT	TOTAL SULFUR PERCENT	CARD CODE	SEQ NO.
Y 1-1573.	.4	.6	.1	.1	5	49
Y 1-1583.	.3	.4	.1	.1	5	50
Y 1-1592.	.5	.3	.1	.2	5	51
Y 1-1602.	.2	.5	.1	.1	5	52
Y 1-1612.	.3	.4	.1	.2	5	53
Y 1-1622.	.1	.4	.1	.1	5	54
Y 1-1632.	.2	.5	.1	.4	5	55
Y 1-1642.	.7	.5	.1	.1	5	56
Y 1-1652.	.2	.4	.1	.2	5	57
Y 1-1662.	.3	.5	.1	.2	5	58
Y 1-1672.	.6	.5	.1	.2	5	59
Y 1-1682.	.3	.5	.1	.2	5	60
Y 1-1692.	.3	.5	.1	.3	5	61
Y 1-1703.	.5	.5	.1	.7	5	62
Y 1-1711.	.5	.3	.1	.1	5	63
Y 1-1721.	.6	.5	.1	.4	5	64
Y 1-1731.	.4	.5	.1	.2	5	65
Y 1-1741.	.5	.5	.1	1.2	5	66
Y 1-1751.	.4	.6	.1	.3	5	67
Y 1-1761.	.2	.3	.1	.5	5	68
Y 1-1770.	.3	.5	.1	.3	5	69
Y 1-1780.	.9	.6	.1	1.4	5	70
Y 1-1790.	.5	.5	.1	.4	5	71
Y 1-1800.	.5	.6	.1	1.3	5	72
Y 1-1810.	.9	.6	.1	1.9	5	73
Y 1-1820.	.8	.6	.1	2.9	5	74
Y 1-1830.	1.1	.6	.1	2.4	5	75
Y 1-1840.	.7	.5	.1	1.8	5	76
Y 1-1850.	3.5	.6	.1	.2	5	77
Y 1-1860.	.4	.3	.1	1.4	5	78
Y 1-1870.	.7	.5	.1	1.6	5	79
Y 1-1880.	1.1	.6	.1	1.6	5	80
Y 1-1889.	.9	.6	.1	.2	5	81
Y 1-1899.	.7	.6	.1	.5	5	82
Y 1-1909.	1.0	.2	.1	.9	5	83
Y 1-1919.	.5	.3	.1	.2	5	84
Y 1-1929.	.8	.6	.1	2.8	5	85
Y 1-1947.	.3	.5	.1	.5	5	87
Y 1-1957.	1.0	.5	.1	1.5	5	88
Y 1-1967.	1.6	.5	.1	.1	5	89
Y 1-1977.	.4	.5	.1	1.8	5	90
Y 1-1987.	2.8	.6	.1	.3	5	91
Y 1-1997.	.4	.6	.1	.5	5	92

TABLE 12. SUMMARY OF PHYSICAL CHARACTERIZATION DATA

SAMPLE ID.	BULK DENSITY, G/CC	TRUE DENSITY, G/CC	POROSITY, PCT	SURFACE AREA, M2/G	SEQ. NO.
I 2- 135.	2.171	2.136	0.000	5.066	1
I 2- 149.	2.283	2.067	0.000	4.419	2
I 2- 159.	2.223	2.238	.670	4.371	3
I 2- 169.	2.522	2.389	0.000	3.811	4
I 2- 179.	2.257	2.394	5.715	3.528	5
I 2- 189.	2.484	2.588	4.022	4.534	6
I 2- 199.	2.429	2.290	0.000	2.364	7
I 2- 209.	2.456	2.429	0.000	2.005	8
I 2- 219.	2.413	2.374	0.000	2.483	9
I 2- 229.	2.343	2.284	0.000	3.194	10
I 2- 239.	2.372	2.226	0.000	1.904	11

TABLE 13. STATISTICAL ANALYSES OF PHYSICAL CHARACTERIZATION DATA

WELL 1 2

	MEAN	STANDARD DEVIATION	VARIANCE	COEFFICIENT OF DEVIATION	95 PCT. CONFIDENCE INTERVAL LOWER LIMIT	UPPER LIMIT	NO OF SAMPLES
BULK DENSITY, G/CC	2.359	.11	.01	.05	2.283	2.436	11
TRUE DENSITY, G/CC	2.310	.15	.02	.06	2.213	2.408	11
TOTAL POROSITY, PCT	.946	1.99	3.94	2.10	0.000	2.280	11
SURFACE AREA, M2/G	3.421	1.11	1.24	.32	2.674	4.168	11

*1 IS INSIGNIFICANT

TABLE 14. SUMMARY OF PHYSICAL CHARACTERIZATION DATA
01/05/79

SAMPLE ID.	BULK DENSITY, G/CC	TRUE DENSITY, G/CC	POROSITY, PCT	SURFACE AREA, M2/G	SEQ NO.
Y 1- 372.	2.305	2.763	16.584	4.122	1
Y 1- 382.	2.676	2.603	0.000	3.649	2
Y 1- 392.	2.539	2.845	10.766	.903	3
Y 1- 402.	2.448	2.619	6.511	1.013	4
Y 1- 412.	2.609	2.774	5.945	1.746	5
Y 1- 422.	2.621	2.657	1.372	2.982	6
Y 1- 431.	2.643	2.567	0.000	3.605	7
Y 1- 441.	2.689	2.584	0.000	2.477	8
Y 1- 451.	2.388	2.673	10.670	4.052	9
Y 1- 461.	2.600	2.739	5.060	4.124	10
Y 1- 471.	2.509	2.547	1.517	3.372	11
Y 1- 481.	2.681	2.751	2.532	3.194	12
Y 1- 491.	2.633	2.665	1.206	1.747	13
Y 1- 501.	2.634	2.902	9.233	1.462	14
Y 1- 521.	2.538	2.767	8.264	2.363	15
Y 1- 965.	2.543	2.588	1.740	1.521	18
Y 1- 975.	2.568	2.790	7.968	2.284	19
Y 1- 985.	2.684	2.038	0.000	1.188	20
Y 1- 995.	2.508	2.793	10.193	2.241	21
Y 1-1014.	2.548	2.680	4.927	1.145	23
Y 1-1330.	2.614	2.688	2.738	1.079	24
Y 1-1340.	2.642	2.634	0.000	1.542	25
Y 1-1350.	2.618	2.638	.751	1.563	26
Y 1-1360.	2.563	2.313	9.054	2.507	27
Y 1-1370.	2.645	2.669	.902	3.387	28
Y 1-1380.	2.612	2.809	7.029	1.003	29
Y 1-1390.	2.534	2.685	5.614	3.705	30
Y 1-1400.	2.586	2.663	2.893	1.090	31
Y 1-1410.	2.645	2.781	4.895	5.833	32
Y 1-1420.	2.621	2.629	.304	2.515	33
Y 1-1430.	2.628	2.774	5.265	3.934	34
Y 1-1440.	2.561	2.614	2.009	2.012	35
Y 1-1449.	2.655	2.703	1.995	4.291	36
Y 1-1459.	2.669	2.727	2.119	4.215	37
Y 1-1469.	2.635	2.578	0.000	1.022	38
Y 1-1479.	2.629	2.628	0.000	1.997	39
Y 1-1484.	2.659	2.652	0.000	5.197	40
Y 1-1494.	2.590	2.683	3.484	2.681	41
Y 1-1504.	2.614	2.646	1.226	3.322	42
Y 1-1514.	2.587	2.770	6.602	1.997	43
Y 1-1524.	2.472	2.748	10.057	5.069	44
Y 1-1533.	2.622	2.974	11.825	1.973	45
Y 1-1543.	2.630	2.717	3.189	2.179	46
Y 1-1553.	2.697	2.772	2.720	1.598	47
Y 1-1563.	2.653	2.641	0.000	1.996	48
Y 1-1573.	2.656	2.851	6.849	1.109	49

TABLE 14. (Continued)

Y 1-1583.	2.651	2.684	1.237	.932	50
Y 1-1592.	2.642	2.736	3.443	1.053	51
Y 1-1602.	2.607	2.685	2.918	4.265	52
Y 1-1612.	2.587	2.632	1.724	1.616	53
Y 1-1622.	2.685	2.676	0.000	2.581	54
Y 1-1632.	2.609	2.679	2.609	2.487	55
Y 1-1642.	2.652	2.719	2.473	3.749	56
Y 1-1652.	2.426	2.663	8.898	2.314	57
Y 1-1662.	2.681	2.824	5.053	2.303	58
Y 1-1672.	2.686	2.753	2.429	.934	59
Y 1-1682.	2.654	2.887	8.081	3.527	60
Y 1-1692.	2.608	2.656	1.810	2.716	61
Y 1-1703.	2.618	2.732	3.452	2.967	62
Y 1-1711.	2.667	2.591	0.000	1.659	63
Y 1-1721.	2.593	2.825	8.212	3.893	64
Y 1-1731.	2.521	2.645	4.678	3.542	65
Y 1-1741.	2.642	2.732	3.287	3.980	66
Y 1-1751.	2.646	2.680	1.276	2.641	67
Y 1-1761.	2.640	2.602	0.000	2.853	68
Y 1-1770.	2.628	2.594	0.000	2.490	69
Y 1-1780.	2.635	2.651	.602	3.126	70
Y 1-1790.	2.648	2.634	0.000	1.874	71
Y 1-1800.	2.638	2.803	5.882	4.459	72
Y 1-1810.	2.613	2.682	2.574	3.144	73
Y 1-1820.	2.615	2.896	9.716	1.336	74
Y 1-1830.	2.599	2.762	5.912	1.015	75
Y 1-1840.	2.583	2.701	4.374	3.779	76
Y 1-1850.	2.646	2.947	10.226	2.443	77
Y 1-1860.	2.623	2.629	.234	2.018	78
Y 1-1870.	2.563	2.755	6.956	.947	79
Y 1-1880.	2.570	2.662	3.453	1.198	80
Y 1-1889.	2.675	2.746	2.573	2.635	81
Y 1-1899.	2.594	2.716	4.484	2.859	82
Y 1-1909.	2.650	2.646	0.000	1.027	83
Y 1-1919.	2.624	2.677	1.974	2.295	84
Y 1-1929.	2.594	2.718	4.559	1.717	85
Y 1-1947.	2.698	2.710	.458	2.065	87
Y 1-1957.	2.633	2.661	1.067	2.338	88
Y 1-1967.	2.671	2.888	7.514	1.230	89
Y 1-1977.	2.672	2.690	.679	4.319	90
Y 1-1987.	2.689	2.882	6.703	2.531	91
Y 1-1997.	2.555	2.646	3.431	4.733	92

TABLE 15. STATISTICAL ANALYSES OF PHYSICAL CHARACTERIZATION DATA
01/05/79

WELL Y 1

	MEAN	STANDARD DEVIATION	VARIANCE	COEFFICIENT OF DEVIATION	95 PCT. CONFIDENCE INTERVAL		NO OF SAMPLES
					LOWER LIMIT	UPPER LIMIT	
BULK DENSITY, G/CC	2.610	.07	.00	.03	2.595	2.624	88
TRUE DENSITY, G/CC	2.704	.12	.01	.04	2.679	2.729	88
POROSITY, PCT	3.875	3.57	12.72	.92	3.118	4.631	88
SURFACE AREA, M2/G	2.541	1.18	1.39	.46	2.290	2.791	88

*I IS INSIGNIFICANT

TABLE 16. ENERGY DISPERSIVE ANALYSIS OF Y-1 SHALES

Shale Sample	Element Count Per 100 Counts													
	Na	K	Ca	Mg	Al	Si	Fe	S	Cl	Ti	Fe/S	K/Al	K/Si	Al/Si
Y-1-372	-	8.9	1.6	2.0	21.3	55.6	9.4	-	-	1.2	∞	0.42	0.14	0.38
-975	-	11.8	-	-	24.5	54.2	8.0	0.2	-	1.3	40	0.48	0.22	0.45
-1440	-	3.9	3.5	-	11.5	73.7	6.1	-	0.5	0.8	∞	0.34	0.05	0.16
-1592	-	6.5	2.0	-	16.7	61.0	9.1	-	3.3	1.4	∞	0.39	0.11	0.27
-1751	-	8.7	-	-	18.9	59.0	9.6	2.4	-	1.4	4.0	0.46	0.15	0.32
-1909	-	3.7	7.1	1.7	9.8	71.1	5.3	0.4	-	0.9	14.0	0.37	0.05	0.14
Illite grain	-	17.2	-	-	25.5	57.3	-	-	-	-	-	0.67	0.30	0.45
Pyrite grain	-	-	-	-	-	-	27.5	72.5	-	-	0.38	-	-	-
Quartz grain	-	-	-	-	-	100.0	-	-	-	-	-	-	-	-

APPENDIX A

POROSITY DATA FOR THE I-2 SHALES

POROSITY DATA FOR SAMPLE I 2- 135.

SEQUENCE NUMBER I
PORE VOLUME .025 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0257	.0
2.	29.392	7.500	.0023	.0224	9.2
3.	44.088	5.000	.0034	.0212	13.8
4.	58.784	3.700	.0043	.0203	17.5
5.	73.480	3.000	.0048	.0198	19.4
6.	88.176	2.500	.0057	.0190	23.0
7.	102.872	2.100	.0061	.0185	24.9
8.	117.568	1.800	.0068	.0178	27.6
9.	132.264	1.600	.0072	.0175	29.0
10.	146.960	1.500	.0077	.0169	31.3
11.	161.656	1.400	.0080	.0167	32.3
12.	176.352	1.300	.0085	.0160	35.0
13.	191.048	1.200	.0093	.0153	37.8
14.	205.744	1.100	.0093	.0153	37.8
15.	220.440	1.000	.0095	.0151	38.7
16.	235.136	.930	.0100	.0147	40.6
17.	249.832	.880	.0102	.0144	41.5
18.	264.528	.830	.0106	.0141	42.9
19.	279.224	.790	.0108	.0139	43.8
20.	293.920	.750	.0112	.0134	45.6
25.	367.400	.600	.0112	.0134	45.6
30.	440.880	.500	.0112	.0134	45.6
35.	514.360	.430	.0116	.0131	47.0
40.	587.840	.370	.0120	.0126	48.8
45.	661.320	.330	.0124	.0123	50.2
50.	734.800	.300	.0127	.0119	51.6
55.	808.280	.270	.0128	.0118	52.1
60.	881.760	.250	.0130	.0117	52.5
65.	955.240	.230	.0135	.0111	54.8
70.	1028.720	.210	.0141	.0106	57.1
75.	1102.200	.200	.0142	.0105	57.6
80.	1175.680	.180	.0143	.0103	58.1
85.	1249.160	.170	.0144	.0102	58.5

POROSITY DATA FOR SAMPLE I 2- 135.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0147	.0100	59.4
100.	1469.600	.150	.0148	.0099	59.9
110.	1616.560	.140	.0150	.0097	60.8
120.	1763.520	.130	.0150	.0097	60.8
130.	1910.480	.120	.0155	.0092	62.7
140.	2057.440	.110	.0157	.0090	63.6
150.	2204.400	.100	.0159	.0087	64.5
170.	2499.320	.088	.0164	.0083	66.4
180.	2645.280	.083	.0164	.0083	66.4
190.	2792.240	.079	.0165	.0082	66.8
200.	2939.200	.075	.0168	.0078	68.2
220.	3233.120	.069	.0168	.0078	68.2
240.	3527.040	.062	.0172	.0075	69.6
260.	3820.960	.057	.0175	.0072	71.0
280.	4114.880	.053	.0177	.0069	71.9
300.	4408.800	.050	.0180	.0067	72.8
330.	4849.680	.045	.0182	.0065	73.7
360.	5290.560	.041	.0186	.0060	75.6
390.	5731.440	.038	.0189	.0058	76.5
420.	6172.320	.035	.0191	.0056	77.4
450.	6613.200	.033	.0195	.0051	79.3
490.	7201.040	.030	.0199	.0048	80.6
510.	7494.960	.029	.0202	.0044	82.0
540.	7935.840	.027	.0206	.0041	83.4
590.	8670.640	.025	.0209	.0037	84.8
610.	8964.560	.024	.0211	.0035	85.7
640.	9405.440	.023	.0215	.0032	87.1
700.	10287.200	.021	.0219	.0027	88.9
740.	10875.040	.020	.0223	.0024	90.3
770.	11315.920	.019	.0225	.0022	91.2
800.	11756.800	.019	.0227	.0019	92.2
830.	12197.680	.018	.0232	.0015	94.0
860.	12638.560	.017	.0233	.0014	94.5
900.	13226.400	.017	.0237	.0009	96.3
930.	13667.280	.016	.0240	.0007	97.2
960.	13961.200	.016	.0243	.0003	98.6
1000.	14696.000	.014	.0247	.0000	100.0

POROSITY DATA FOR SAMPLE I 2- 159.

SEQUENCE NUMBER 3
PORE VOLUME .018 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0176	.0
2.	29.392	7.500	.0009	.0167	5.3
3.	44.088	5.000	.0016	.0160	9.3
4.	58.784	3.700	.0024	.0151	13.9
5.	73.480	3.000	.0030	.0146	17.2
6.	88.176	2.500	.0035	.0141	19.9
7.	102.872	2.100	.0037	.0139	21.2
8.	117.568	1.800	.0040	.0136	22.5
9.	132.264	1.600	.0044	.0132	25.2
10.	146.960	1.500	.0047	.0129	26.5
11.	161.656	1.400	.0047	.0129	26.5
12.	176.352	1.300	.0049	.0127	27.8
13.	191.048	1.200	.0051	.0125	29.1
14.	205.744	1.100	.0056	.0120	31.8
15.	220.440	1.000	.0057	.0119	32.5
16.	235.136	.930	.0057	.0119	32.5
17.	249.832	.880	.0059	.0117	33.8
18.	264.528	.830	.0061	.0115	34.4
19.	279.224	.790	.0065	.0111	37.1
20.	293.920	.750	.0068	.0108	38.4
25.	367.400	.600	.0068	.0108	38.4
30.	440.880	.500	.0068	.0108	38.4
35.	514.360	.430	.0069	.0107	39.1
40.	587.840	.370	.0070	.0106	39.7
45.	661.320	.330	.0075	.0101	42.4
50.	734.800	.300	.0079	.0097	45.0
55.	809.280	.270	.0083	.0093	47.0
60.	881.760	.250	.0086	.0090	49.0
65.	955.240	.230	.0089	.0087	50.3
70.	1028.720	.210	.0091	.0085	51.7
75.	1102.200	.200	.0092	.0084	52.3
80.	1175.680	.180	.0093	.0083	53.0
85.	1249.160	.170	.0096	.0080	54.3

POROSITY DATA FOR SAMPLE I 2- 159.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0098	.0078	55.6
100.	1469.600	.150	.0099	.0077	56.3
110.	1616.560	.140	.0100	.0076	57.0
120.	1763.520	.130	.0103	.0073	58.3
130.	1910.480	.120	.0104	.0072	58.9
140.	2057.440	.110	.0104	.0072	58.9
150.	2204.400	.100	.0107	.0069	60.9
170.	2498.320	.088	.0110	.0066	62.3
180.	2645.280	.083	.0110	.0066	62.3
190.	2792.240	.079	.0112	.0064	63.6
200.	2939.200	.075	.0114	.0062	64.9
220.	3233.120	.068	.0117	.0059	66.2
240.	3527.040	.062	.0119	.0057	67.5
260.	3820.960	.057	.0120	.0056	68.2
280.	4114.880	.053	.0121	.0055	68.9
300.	4408.800	.050	.0123	.0052	70.2
330.	4849.680	.045	.0126	.0050	71.5
360.	5290.560	.041	.0128	.0048	72.8
390.	5731.440	.038	.0132	.0044	74.8
420.	6172.320	.035	.0134	.0042	76.2
450.	6613.200	.033	.0137	.0038	78.1
490.	7201.040	.030	.0141	.0035	80.1
510.	7494.960	.029	.0141	.0035	80.1
540.	7935.840	.027	.0144	.0031	82.1
590.	8670.640	.025	.0147	.0029	83.4
610.	8964.560	.024	.0149	.0027	84.8
640.	9405.440	.023	.0153	.0023	86.8
700.	10287.200	.021	.0155	.0021	88.1
740.	10875.040	.020	.0158	.0017	90.1
770.	11315.920	.019	.0161	.0015	91.4
800.	11756.800	.019	.0163	.0013	92.7
830.	12197.680	.018	.0165	.0010	94.0
860.	12638.560	.017	.0168	.0008	95.4
900.	13226.400	.017	.0169	.0007	96.0
930.	13667.280	.016	.0172	.0003	98.0
960.	13961.200	.016	.0174	.0002	98.7
1000.	14696.000	.014	.0176	.0000	100.0

POROSITY DATA FOR SAMPLE I 2- 179.

SEQUENCE NUMBER 5

PORE VOLUME .024 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0237	.0
2.	29.392	7.500	.0009	.0228	3.8
3.	44.088	5.000	.0009	.0228	3.8
4.	58.784	3.700	.0010	.0226	4.3
5.	73.480	3.000	.0012	.0224	5.2
6.	88.176	2.500	.0017	.0220	7.1
7.	102.872	2.100	.0022	.0214	9.5
8.	117.568	1.800	.0027	.0210	11.4
9.	132.264	1.600	.0034	.0203	14.2
10.	146.960	1.500	.0038	.0198	16.1
11.	161.656	1.400	.0043	.0194	18.0
12.	176.352	1.300	.0049	.0187	20.9
13.	191.048	1.200	.0056	.0180	23.7
14.	205.744	1.100	.0063	.0174	26.5
15.	220.440	1.000	.0066	.0170	28.0
16.	235.136	.930	.0069	.0167	29.4
17.	249.832	.880	.0074	.0163	31.3
18.	264.528	.830	.0076	.0160	32.2
19.	279.224	.790	.0078	.0158	33.2
20.	293.920	.750	.0089	.0148	37.4
25.	367.460	.600	.0090	.0147	37.9
30.	440.880	.500	.0091	.0146	38.4
35.	514.360	.430	.0098	.0139	41.2
40.	597.840	.370	.0106	.0130	45.0
45.	661.320	.330	.0112	.0124	47.4
50.	734.800	.300	.0117	.0120	49.3
55.	808.280	.270	.0121	.0115	51.2
60.	881.760	.250	.0126	.0111	53.1
65.	955.240	.230	.0129	.0108	54.5
70.	1028.720	.210	.0132	.0104	55.9
75.	1102.200	.200	.0135	.0102	56.9
80.	1175.680	.180	.0137	.0100	57.8
85.	1249.160	.170	.0138	.0099	58.3

POROSITY DATA FOR SAMPLE I 2- 179.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0139	.0098	58.8
100.	1469.600	.150	.0143	.0093	60.7
110.	1616.560	.140	.0146	.0091	61.6
120.	1763.520	.130	.0148	.0089	62.6
130.	1910.480	.120	.0150	.0086	63.5
140.	2057.440	.110	.0152	.0084	64.5
150.	2204.400	.100	.0155	.0082	65.4
170.	2498.320	.088	.0158	.0078	66.8
180.	2645.280	.083	.0161	.0075	68.2
190.	2792.240	.079	.0164	.0073	69.2
200.	2939.200	.075	.0164	.0073	69.2
220.	3233.120	.068	.0166	.0071	70.1
240.	3527.040	.062	.0169	.0067	71.6
260.	3820.960	.057	.0170	.0066	72.0
280.	4114.880	.053	.0173	.0064	73.0
300.	4408.800	.050	.0175	.0062	73.9
330.	4849.680	.045	.0180	.0056	76.3
360.	5290.560	.041	.0182	.0055	76.8
390.	5731.440	.038	.0184	.0053	77.7
420.	6172.320	.035	.0188	.0048	79.6
450.	6613.200	.033	.0192	.0045	81.0
490.	7201.040	.030	.0194	.0043	82.0
510.	7494.960	.029	.0194	.0043	82.0
540.	7935.840	.027	.0200	.0037	84.4
590.	8670.640	.025	.0203	.0034	85.8
610.	8964.560	.024	.0204	.0033	86.3
640.	9405.440	.023	.0206	.0030	87.2
700.	10287.200	.021	.0211	.0026	89.1
740.	10875.040	.020	.0215	.0021	91.0
770.	11315.920	.019	.0217	.0019	91.9
800.	11756.800	.019	.0219	.0018	92.4
830.	12197.680	.018	.0220	.0017	92.9
860.	12638.560	.017	.0225	.0011	95.1
900.	13226.400	.017	.0226	.0010	95.7
930.	13667.280	.016	.0231	.0006	97.6
960.	13961.200	.016	.0233	.0003	98.6
1000.	14696.000	.014	.0237	.0000	100.0

POROSITY DATA FOR SAMPLE I 2- 199.

SEQUENCE NUMBER 7
PORE VOLUME .030 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0301	.0
2.	29.392	7.500	.0019	.0282	6.2
3.	44.083	5.000	.0030	.0270	10.0
4.	58.784	3.700	.0038	.0262	12.7
5.	73.480	3.000	.0046	.0254	15.4
6.	88.175	2.500	.0058	.0243	19.3
7.	102.872	2.100	.0065	.0236	21.6
8.	117.563	1.800	.0077	.0224	25.5
9.	132.264	1.600	.0084	.0217	27.8
10.	146.960	1.500	.0093	.0208	30.9
11.	161.655	1.400	.0098	.0203	32.4
12.	176.352	1.300	.0107	.0194	35.5
13.	191.049	1.200	.0116	.0185	38.6
14.	205.744	1.100	.0121	.0180	40.2
15.	220.440	1.000	.0128	.0173	42.5
16.	235.136	.930	.0132	.0168	44.0
17.	249.832	.880	.0139	.0161	46.3
18.	264.528	.830	.0144	.0157	47.9
19.	279.224	.790	.0149	.0152	49.4
20.	293.920	.750	.0151	.0150	50.2
25.	367.400	.600	.0152	.0149	50.6
30.	440.880	.500	.0153	.0147	51.0
35.	514.360	.430	.0161	.0139	53.7
40.	587.840	.370	.0169	.0131	56.4
45.	661.320	.330	.0175	.0125	58.3
50.	734.800	.300	.0181	.0120	60.2
55.	808.280	.270	.0186	.0115	61.8
60.	881.760	.250	.0190	.0110	63.3
65.	955.240	.230	.0194	.0107	64.5
70.	1028.720	.210	.0197	.0103	65.6
75.	1102.200	.200	.0201	.0100	66.8
80.	1175.680	.180	.0204	.0096	68.0
85.	1249.160	.170	.0205	.0095	68.3

POROSITY DATA FOR SAMPLE I 2-199.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0207	.0094	68.7
100.	1469.600	.150	.0209	.0092	69.5
110.	1616.560	.140	.0210	.0091	69.9
120.	1763.520	.130	.0211	.0089	70.3
130.	1910.480	.120	.0215	.0086	71.4
140.	2057.440	.110	.0221	.0080	73.4
150.	2204.400	.100	.0221	.0080	73.4
170.	2498.320	.088	.0224	.0077	74.5
180.	2645.280	.083	.0226	.0074	75.3
190.	2792.240	.079	.0230	.0071	76.4
200.	2939.200	.075	.0231	.0070	76.8
220.	3233.120	.068	.0233	.0067	77.6
240.	3527.040	.062	.0234	.0066	78.0
260.	3820.960	.057	.0240	.0060	79.9
280.	4114.880	.053	.0243	.0058	80.7
300.	4408.800	.050	.0244	.0057	81.1
330.	4849.680	.045	.0248	.0052	82.6
360.	5290.560	.041	.0248	.0052	82.6
390.	5731.440	.038	.0253	.0048	84.2
420.	6172.320	.035	.0254	.0046	84.6
450.	6613.200	.033	.0257	.0044	85.3
490.	7201.040	.030	.0260	.0041	86.5
510.	7494.960	.029	.0264	.0037	87.6
540.	7935.840	.027	.0266	.0035	88.4
590.	8670.640	.025	.0269	.0031	89.6
610.	8964.560	.024	.0272	.0029	90.3
640.	9405.440	.023	.0276	.0024	91.9
700.	10287.200	.021	.0277	.0023	92.3
740.	10875.040	.020	.0281	.0020	93.4
770.	11315.920	.019	.0283	.0017	94.2
800.	11756.800	.019	.0286	.0015	95.0
830.	12197.680	.018	.0000	.0301	.0
860.	12638.560	.017	.0000	.0301	.0
900.	13226.400	.017	.0294	.0007	97.7
930.	13667.280	.016	.0295	.0006	98.1
960.	13961.200	.016	.0298	.0002	99.2
1000.	14696.000	.014	.0301	.0000	100.0

POROSITY DATA FOR SAMPLE I 2- 219.

SEQUENCE NUMBER 9
 PORE VOLUME .032 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0317	.0
2.	29.392	7.500	.0025	.0292	8.0
3.	44.088	5.000	.0035	.0283	10.9
4.	58.784	3.700	.0041	.0277	12.8
5.	73.480	3.000	.0056	.0262	17.5
6.	88.176	2.500	.0058	.0259	18.2
7.	102.872	2.100	.0063	.0255	19.7
8.	117.568	1.800	.0069	.0248	21.9
9.	132.264	1.600	.0076	.0241	24.1
10.	146.960	1.500	.0081	.0236	25.5
11.	161.656	1.400	.0088	.0229	27.7
12.	176.352	1.300	.0095	.0222	29.9
13.	191.048	1.200	.0103	.0214	32.5
14.	205.744	1.100	.0109	.0208	34.3
15.	220.440	1.000	.0118	.0199	37.2
16.	235.136	.930	.0125	.0192	39.4
17.	249.832	.880	.0129	.0189	40.6
18.	264.528	.830	.0134	.0183	42.3
19.	279.224	.790	.0141	.0176	44.5
20.	293.920	.750	.0146	.0171	46.0
25.	367.400	.600	.0148	.0169	46.7
30.	440.880	.500	.0151	.0167	47.4
35.	514.360	.430	.0161	.0156	50.7
40.	587.840	.370	.0171	.0146	54.0
45.	661.320	.330	.0181	.0137	56.9
50.	734.800	.300	.0190	.0127	59.9
55.	808.280	.270	.0195	.0123	61.3
60.	881.760	.250	.0199	.0118	62.8
65.	955.240	.230	.0204	.0113	64.2
70.	1028.720	.210	.0208	.0109	65.7
75.	1102.200	.200	.0211	.0107	66.4
80.	1175.680	.180	.0213	.0104	67.2
85.	1249.160	.170	.0217	.0101	68.2

POROSITY DATA FOR SAMPLE I 2- 219.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0220	.0097	69.3
100.	1469.600	.150	.0223	.0094	70.4
110.	1616.560	.140	.0227	.0090	71.5
120.	1763.520	.130	.0229	.0088	72.3
130.	1910.480	.120	.0234	.0083	73.7
140.	2057.440	.110	.0236	.0081	74.5
150.	2204.400	.100	.0239	.0079	75.2
170.	2498.320	.088	.0243	.0074	76.6
180.	2645.280	.083	.0245	.0072	77.4
190.	2792.240	.079	.0248	.0069	78.1
200.	2939.200	.075	.0250	.0067	78.8
220.	3233.120	.068	.0252	.0065	79.6
240.	3527.040	.062	.0255	.0063	80.3
260.	3820.960	.057	.0257	.0060	81.0
280.	4114.880	.053	.0259	.0058	81.8
300.	4408.800	.050	.0262	.0056	82.5
330.	4849.680	.045	.0264	.0053	83.2
360.	5290.560	.041	.0266	.0051	83.9
390.	5731.440	.038	.0270	.0047	85.0
420.	6172.320	.035	.0273	.0044	86.1
450.	6613.200	.033	.0278	.0039	87.6
490.	7201.040	.030	.0279	.0038	88.0
510.	7494.960	.029	.0280	.0037	88.3
540.	7935.840	.027	.0285	.0032	89.8
590.	8670.640	.025	.0290	.0028	91.2
610.	8964.560	.024	.0290	.0028	91.2
640.	9405.440	.023	.0292	.0025	92.0
700.	10287.200	.021	.0295	.0022	93.1
740.	10875.040	.020	.0300	.0017	94.5
770.	11315.920	.019	.0302	.0015	95.3
800.	11756.800	.019	.0303	.0014	95.6
930.	12197.680	.018	.0306	.0012	96.4
860.	12638.560	.017	.0306	.0012	96.4
900.	13226.400	.017	.0310	.0007	97.8
930.	13667.280	.016	.0313	.0005	98.5
960.	13961.200	.016	.0315	.0002	99.3
1000.	14695.000	.014	.0317	.0000	100.0

POROSITY DATA FOR SAMPLE I 2- 239.

SEQUENCE NUMBER 11

PORE VOLUME .022 CC/G

SEQUENCE NUMBER	PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.		14.696	15.000	.0000	.0222	.0
2.		29.392	7.500	.0021	.0201	9.5
3.		44.068	5.000	.0028	.0194	12.7
4.		58.784	3.700	.0035	.0187	15.9
5.		73.480	3.000	.0040	.0182	18.0
6.		88.176	2.500	.0042	.0180	19.0
7.		102.872	2.100	.0049	.0173	22.2
8.		117.568	1.800	.0052	.0170	23.3
9.		132.264	1.600	.0059	.0163	26.5
10.		146.960	1.500	.0062	.0160	28.0
11.		161.656	1.400	.0063	.0159	28.6
12.		176.352	1.300	.0071	.0152	31.7
13.		191.048	1.200	.0073	.0149	32.8
14.		205.744	1.100	.0078	.0145	34.9
15.		220.440	1.000	.0082	.0140	37.0
16.		235.136	.930	.0082	.0140	37.0
17.		249.832	.880	.0087	.0135	39.2
18.		264.528	.830	.0087	.0135	39.2
19.		279.224	.790	.0093	.0129	41.8
20.		293.920	.750	.0094	.0128	42.3
25.		367.400	.600	.0095	.0127	42.9
30.		440.880	.500	.0096	.0126	43.4
35.		514.360	.430	.0113	.0109	50.8
40.		587.840	.370	.0118	.0105	52.9
45.		661.320	.330	.0119	.0103	53.4
50.		734.800	.300	.0120	.0102	54.0
55.		808.280	.270	.0121	.0101	54.5
60.		881.760	.250	.0122	.0100	55.0
65.		955.240	.230	.0125	.0098	56.1
70.		1028.720	.210	.0127	.0095	57.1
75.		1102.200	.200	.0129	.0093	58.2
80.		1175.680	.180	.0132	.0090	59.3
85.		1249.160	.170	.0134	.0088	60.3

POROSITY DATA FOR SAMPLE I 2- 239.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0136	.0086	61.4
100.	1469.600	.150	.0141	.0081	63.5
110.	1616.560	.140	.0141	.0081	63.5
120.	1763.520	.130	.0146	.0076	65.6
130.	1910.480	.120	.0148	.0074	66.7
140.	2057.440	.110	.0152	.0071	68.3
150.	2204.400	.100	.0152	.0071	68.3
170.	2498.320	.088	.0155	.0067	69.9
180.	2645.280	.083	.0155	.0067	69.8
190.	2792.240	.079	.0157	.0065	70.9
200.	2939.200	.075	.0157	.0065	70.9
220.	3233.120	.068	.0160	.0062	72.0
240.	3527.040	.062	.0165	.0058	74.1
260.	3820.960	.057	.0165	.0058	74.1
280.	4114.880	.053	.0169	.0053	76.2
300.	4408.800	.050	.0169	.0053	76.2
330.	4849.680	.045	.0174	.0048	78.3
360.	5290.560	.041	.0176	.0046	79.4
390.	5731.440	.038	.0179	.0043	80.4
420.	6172.320	.035	.0179	.0043	80.4
450.	6613.200	.033	.0181	.0041	81.5
490.	7201.040	.030	.0187	.0035	84.1
510.	7494.960	.029	.0187	.0035	84.1
540.	7935.840	.027	.0189	.0033	85.2
590.	8670.640	.025	.0193	.0029	86.8
610.	8964.560	.024	.0193	.0029	86.8
640.	9405.440	.023	.0197	.0025	88.9
700.	10287.200	.021	.0202	.0020	91.0
740.	10875.040	.020	.0204	.0018	92.1
770.	11315.920	.019	.0207	.0015	93.1
800.	11756.800	.019	.0209	.0013	94.2
830.	12197.680	.018	.0210	.0012	94.7
860.	12638.560	.017	.0214	.0008	96.3
900.	13226.400	.017	.0215	.0007	96.8
930.	13667.280	.016	.0215	.0007	96.8
960.	13961.200	.016	.0220	.0002	98.9
1000.	14606.000	.014	.0222	.0000	100.0

PORE DIA, MICRO-M
WELL 1 2 135.

APPENDIX B

POROSITY DATA FOR THE Y-1 WELL

POROSITY DATA FOR SAMPLE Y 1- 372.

SEQUENCE NUMBER 1
PORE VOLUME .021 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0205	.0
2.	29.392	7.500	.0016	.0189	7.8
3.	44.089	5.000	.0023	.0182	11.1
4.	58.784	3.700	.0027	.0178	13.3
5.	73.480	3.000	.0032	.0173	15.6
6.	88.176	2.500	.0034	.0171	16.7
7.	102.872	2.100	.0038	.0168	18.3
8.	117.568	1.800	.0041	.0164	20.0
9.	132.264	1.600	.0046	.0160	22.2
10.	146.960	1.500	.0046	.0160	22.2
11.	161.656	1.400	.0050	.0155	24.4
12.	176.352	1.300	.0052	.0153	25.6
13.	191.048	1.200	.0057	.0148	27.8
14.	205.744	1.100	.0062	.0144	30.0
15.	220.440	1.000	.0064	.0141	31.1
16.	235.136	.930	.0067	.0138	32.8
17.	249.832	.880	.0073	.0132	35.6
18.	264.528	.830	.0075	.0130	36.7
19.	279.224	.790	.0080	.0125	38.9
20.	293.920	.750	.0084	.0121	41.1
25.	367.400	.600	.0084	.0121	41.1
30.	440.880	.500	.0084	.0121	41.1
35.	514.360	.430	.0088	.0117	42.8
40.	587.840	.370	.0091	.0114	44.4
45.	661.320	.330	.0098	.0107	47.8
50.	734.800	.300	.0105	.0100	51.1
55.	808.280	.270	.0109	.0096	53.3
60.	881.760	.250	.0114	.0091	55.6
65.	955.240	.230	.0116	.0089	56.7
70.	1028.720	.210	.0119	.0087	57.8
75.	1102.200	.200	.0123	.0082	60.0
80.	1175.680	.180	.0128	.0078	62.2
85.	1249.160	.170	.0129	.0076	62.8

POROSITY DATA FOR SAMPLE Y 1- 372.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0130	.0075	63.3
100.	1469.600	.150	.0130	.0075	63.3
110.	1616.560	.140	.0135	.0071	65.6
120.	1763.520	.130	.0135	.0071	65.6
130.	1910.480	.120	.0136	.0070	66.1
140.	2057.440	.110	.0137	.0068	66.7
150.	2204.400	.100	.0137	.0068	66.7
170.	2498.320	.088	.0144	.0062	70.0
180.	2645.280	.083	.0144	.0062	70.0
190.	2792.240	.079	.0146	.0059	71.1
200.	2939.200	.075	.0146	.0059	71.1
220.	3233.120	.068	.0148	.0057	72.2
240.	3527.040	.062	.0149	.0056	72.8
260.	3820.960	.057	.0155	.0050	75.6
280.	4114.880	.053	.0155	.0050	75.6
300.	4408.800	.050	.0155	.0050	75.6
330.	4849.680	.045	.0160	.0046	77.8
360.	5290.560	.041	.0162	.0043	78.9
390.	5731.440	.038	.0164	.0041	80.0
420.	6172.320	.035	.0166	.0039	81.1
450.	6613.200	.033	.0171	.0034	83.3
490.	7201.040	.030	.0172	.0033	83.9
510.	7494.960	.029	.0173	.0032	84.4
540.	7935.840	.027	.0176	.0030	85.6
590.	8670.640	.025	.0178	.0027	86.7
610.	8964.560	.024	.0181	.0024	88.3
640.	9405.440	.023	.0184	.0022	89.4
700.	10247.200	.021	.0185	.0021	90.0
740.	10775.040	.020	.0189	.0016	92.2
770.	11315.920	.019	.0189	.0016	92.2
800.	11756.800	.019	.0190	.0015	92.8
830.	12197.680	.018	.0193	.0013	93.9
860.	12638.560	.017	.0196	.0009	95.6
900.	13226.400	.017	.0198	.0007	96.7
930.	13667.280	.016	.0203	.0002	98.9
950.	13961.200	.016	.0205	.0000	100.0
1000.	14696.000	.014	.0205	.0000	100.0

SEQUENCE NUMBER 3
PORE VOLUME .019 CC/G

POROSITY DATA FOR SAMPLE Y 1- 392.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0187	.0
2.	29.392	7.500	.0014	.0174	7.2
3.	44.088	5.000	.0020	.0167	10.8
4.	58.784	3.700	.0025	.0162	13.3
5.	73.480	3.000	.0027	.0160	14.5
6.	88.176	2.500	.0032	.0156	16.9
7.	102.872	2.100	.0035	.0152	18.7
8.	117.568	1.800	.0038	.0149	20.5
9.	132.264	1.600	.0043	.0144	22.9
10.	146.960	1.500	.0046	.0141	24.7
11.	161.656	1.400	.0046	.0141	24.7
12.	176.352	1.300	.0049	.0139	25.9
13.	191.048	1.200	.0052	.0135	27.7
14.	205.744	1.100	.0056	.0131	30.1
15.	220.440	1.000	.0061	.0126	32.5
16.	235.136	.930	.0065	.0122	34.9
17.	249.832	.860	.0068	.0120	36.1
18.	264.528	.830	.0070	.0117	37.3
19.	279.224	.790	.0072	.0115	38.6
20.	293.920	.750	.0074	.0113	39.8
25.	367.400	.600	.0074	.0113	39.8
30.	440.880	.500	.0074	.0113	39.8
35.	514.360	.430	.0081	.0106	43.4
40.	587.840	.370	.0088	.0099	47.0
45.	661.320	.330	.0093	.0095	49.4
50.	734.800	.300	.0097	.0090	51.8
55.	808.280	.270	.0100	.0087	53.6
60.	881.760	.250	.0104	.0084	55.4
65.	955.240	.230	.0107	.0080	57.2
70.	1028.720	.210	.0111	.0077	59.0
75.	1102.200	.200	.0113	.0074	60.2
80.	1175.680	.180	.0115	.0072	61.4
85.	1249.160	.170	.0116	.0071	62.0

POROSITY DATA FOR SAMPLE Y 1- 392.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0117	.0070	62.7
100.	1469.600	.150	.0117	.0070	62.7
110.	1616.560	.140	.0124	.0063	66.3
120.	1763.520	.130	.0126	.0061	67.5
130.	1910.480	.120	.0129	.0059	68.7
140.	2057.440	.110	.0129	.0059	68.7
150.	2204.400	.100	.0131	.0056	69.9
170.	2498.320	.088	.0135	.0052	72.3
180.	2645.280	.083	.0135	.0052	72.3
190.	2792.240	.079	.0138	.0050	73.5
200.	2939.200	.075	.0138	.0050	73.5
220.	3233.120	.068	.0140	.0047	74.7
240.	3527.040	.062	.0141	.0046	75.3
260.	3820.960	.057	.0144	.0043	77.1
280.	4114.880	.053	.0147	.0041	78.3
300.	4408.800	.050	.0148	.0039	78.9
330.	4849.680	.045	.0151	.0036	80.7
360.	5290.560	.041	.0151	.0036	80.7
390.	5731.440	.038	.0156	.0032	83.1
420.	6172.320	.035	.0157	.0030	83.7
450.	6613.200	.033	.0159	.0028	84.9
490.	7201.040	.030	.0160	.0027	85.5
510.	7494.960	.029	.0162	.0025	86.7
540.	7935.840	.027	.0162	.0025	86.7
590.	8670.640	.025	.0165	.0023	88.0
610.	8964.560	.024	.0167	.0020	89.2
640.	9405.440	.023	.0170	.0017	91.0
700.	10247.200	.021	.0172	.0016	91.6
740.	10975.040	.020	.0174	.0014	92.8
770.	11315.920	.019	.0176	.0011	94.0
800.	11756.800	.019	.0177	.0010	94.6
830.	12197.680	.018	.0177	.0010	94.6
860.	12638.560	.017	.0181	.0007	96.4
900.	13226.400	.017	.0184	.0003	98.2
930.	13667.280	.016	.0184	.0003	98.2
960.	13961.200	.016	.0187	.0000	100.0
1000.	14696.000	.014	.0187	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1- 412.

SEQUENCE NUMBER 5
PORE VOLUME .018 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0177	.0
2.	29.332	7.500	.0021	.0156	11.8
3.	44.098	5.000	.0026	.0152	14.5
4.	58.784	3.700	.0030	.0147	17.1
5.	73.480	3.000	.0033	.0145	18.4
6.	88.176	2.500	.0033	.0145	18.4
7.	102.872	2.100	.0037	.0140	21.1
8.	117.558	1.800	.0042	.0135	23.7
9.	132.264	1.500	.0044	.0133	25.0
10.	146.950	1.500	.0047	.0131	26.3
11.	161.656	1.400	.0049	.0128	27.6
12.	176.352	1.300	.0051	.0126	28.9
13.	191.048	1.200	.0054	.0124	30.3
14.	205.744	1.100	.0056	.0121	31.6
15.	220.440	1.000	.0061	.0117	34.2
16.	235.136	.930	.0062	.0115	34.9
17.	249.832	.880	.0063	.0114	35.5
18.	264.528	.830	.0065	.0112	36.8
19.	279.224	.790	.0069	.0108	38.8
20.	293.920	.750	.0070	.0107	39.5
25.	367.400	.600	.0071	.0106	40.1
30.	440.880	.500	.0072	.0105	40.8
35.	514.360	.430	.0076	.0101	42.8
40.	587.840	.370	.0079	.0098	44.7
45.	661.320	.330	.0082	.0096	46.1
50.	734.800	.300	.0084	.0093	47.4
55.	808.280	.270	.0087	.0090	49.3
60.	881.760	.250	.0091	.0086	51.3
65.	955.240	.230	.0093	.0084	52.6
70.	1028.720	.210	.0096	.0082	53.9
75.	1102.200	.200	.0099	.0078	55.9
80.	1175.680	.180	.0103	.0075	57.9
85.	1249.160	.170	.0103	.0075	57.9

POROSITY DATA FOR SAMPLE Y 1- 412.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0104	.0073	58.6
100.	1469.600	.150	.0107	.0070	60.5
110.	1616.560	.140	.0110	.0068	61.8
120.	1763.520	.130	.0114	.0063	64.5
130.	1910.480	.120	.0117	.0061	65.8
140.	2057.440	.110	.0117	.0061	65.8
150.	2204.400	.100	.0117	.0061	65.8
170.	2498.320	.088	.0119	.0058	67.1
180.	2645.280	.083	.0120	.0057	67.8
190.	2792.240	.079	.0122	.0055	69.1
200.	2939.200	.075	.0122	.0055	69.1
220.	3233.120	.068	.0126	.0051	71.1
240.	3527.040	.062	.0128	.0049	72.4
260.	3820.960	.057	.0128	.0049	72.4
280.	4114.880	.053	.0133	.0044	75.0
300.	4408.800	.050	.0135	.0042	76.3
330.	4849.680	.045	.0135	.0042	76.3
360.	5290.560	.041	.0139	.0038	78.3
390.	5731.440	.038	.0141	.0036	79.6
420.	6172.320	.035	.0142	.0035	80.3
450.	6613.200	.033	.0145	.0033	81.6
480.	7054.080	.030	.0147	.0030	82.9
510.	7494.960	.029	.0147	.0030	82.9
540.	7935.840	.027	.0153	.0024	86.2
590.	8670.640	.025	.0154	.0023	86.8
610.	8964.560	.024	.0154	.0023	86.8
640.	9405.440	.023	.0156	.0021	88.2
700.	10247.200	.021	.0161	.0016	90.8
740.	10875.040	.020	.0163	.0014	92.1
770.	11315.920	.019	.0166	.0012	93.4
800.	11756.800	.019	.0167	.0010	94.1
830.	12197.680	.018	.0168	.0009	94.7
850.	12638.560	.017	.0169	.0008	95.4
900.	13226.400	.017	.0171	.0006	96.7
930.	13667.280	.016	.0175	.0002	98.7
960.	13961.200	.016	.0177	.0000	100.0
1000.	14696.000	.014	.0177	.0000	100.0

SEQUENCE NUMBER 7
PORE VOLUME .022 CC/G

POROSITY DATA FOR SAMPLE Y 1- 431.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0216	.0
2.	29.392	7.500	.0009	.0207	4.2
3.	44.088	5.000	.0011	.0205	5.2
4.	58.784	3.700	.0020	.0196	9.4
5.	73.480	3.000	.0023	.0194	10.4
6.	88.176	2.500	.0028	.0188	13.0
7.	102.872	2.100	.0032	.0185	14.6
8.	117.568	1.800	.0036	.0180	16.7
9.	132.264	1.600	.0041	.0176	18.8
10.	146.960	1.500	.0045	.0171	20.8
11.	161.656	1.400	.0047	.0169	21.9
12.	176.352	1.300	.0052	.0165	24.0
13.	191.048	1.200	.0056	.0160	26.0
14.	205.744	1.100	.0057	.0159	26.6
15.	220.440	1.000	.0061	.0156	28.1
16.	235.136	.930	.0065	.0151	30.2
17.	249.832	.880	.0069	.0148	31.8
18.	264.528	.830	.0072	.0144	33.3
19.	279.224	.790	.0074	.0142	34.4
20.	293.920	.750	.0077	.0140	35.4
25.	367.400	.600	.0080	.0136	37.0
30.	440.880	.500	.0083	.0133	38.5
35.	514.360	.430	.0087	.0130	40.1
40.	587.840	.370	.0090	.0126	41.7
45.	661.320	.330	.0094	.0123	43.2
50.	734.800	.300	.0097	.0119	44.8
55.	808.280	.270	.0101	.0115	46.9
60.	881.760	.250	.0106	.0110	49.0
65.	955.240	.230	.0108	.0108	50.0
70.	1028.720	.210	.0110	.0106	51.0
75.	1102.200	.200	.0112	.0105	51.6
80.	1175.680	.180	.0113	.0104	52.1
85.	1249.160	.170	.0114	.0103	52.6

POROSITY DATA FOR SAMPLE Y 1- 431.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0115	.0101	53.1
100.	1469.600	.150	.0119	.0097	55.2
110.	1616.560	.140	.0122	.0095	56.3
120.	1763.520	.130	.0124	.0092	57.3
130.	1910.480	.120	.0126	.0090	58.3
140.	2057.440	.110	.0131	.0086	60.4
150.	2204.400	.100	.0131	.0086	60.4
170.	2499.320	.088	.0135	.0081	62.5
180.	2645.280	.083	.0136	.0080	63.0
190.	2792.240	.079	.0139	.0078	64.1
200.	2939.200	.075	.0139	.0078	64.1
220.	3233.120	.068	.0140	.0077	64.6
240.	3527.040	.062	.0145	.0071	67.2
260.	3820.960	.057	.0147	.0070	67.7
280.	4114.880	.053	.0149	.0068	68.8
300.	4408.800	.050	.0151	.0065	69.8
330.	4849.680	.045	.0153	.0063	70.8
360.	5290.560	.041	.0156	.0061	71.9
390.	5731.440	.038	.0159	.0057	73.4
420.	6172.320	.035	.0160	.0056	74.0
450.	6613.200	.033	.0163	.0053	75.5
490.	7201.040	.030	.0168	.0048	77.6
510.	7494.960	.029	.0170	.0046	78.6
540.	7935.840	.027	.0171	.0045	79.2
590.	8670.640	.025	.0176	.0041	81.3
610.	8964.560	.024	.0178	.0038	82.3
640.	9405.440	.023	.0183	.0034	84.4
700.	10287.200	.021	.0186	.0030	85.9
740.	10875.040	.020	.0188	.0028	87.0
770.	11315.920	.019	.0194	.0023	89.6
800.	11756.800	.019	.0196	.0020	90.6
830.	12197.680	.018	.0200	.0017	92.2
860.	12638.560	.017	.0202	.0015	93.2
900.	13226.400	.017	.0205	.0011	94.8
930.	13667.280	.016	.0207	.0009	95.8
960.	13961.200	.016	.0212	.0005	97.9
1000.	14696.000	.014	.0216	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1- 451.

SEQUENCE NUMBER 9
PORE VOLUME .018 CC/G

PRESSURE ATM'S	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0178	.0
2.	29.392	7.500	.0011	.0166	6.5
3.	44.088	5.000	.0018	.0159	10.3
4.	58.784	3.700	.0023	.0155	12.9
5.	73.480	3.000	.0026	.0151	14.8
6.	88.175	2.500	.0032	.0145	18.1
7.	102.872	2.100	.0034	.0143	19.4
8.	117.568	1.800	.0039	.0139	21.9
9.	132.264	1.600	.0044	.0134	24.5
10.	146.960	1.500	.0046	.0132	25.8
11.	161.655	1.400	.0048	.0129	27.1
12.	176.352	1.300	.0050	.0127	28.4
13.	191.048	1.200	.0055	.0123	31.0
14.	205.744	1.100	.0060	.0118	33.5
15.	220.440	1.000	.0062	.0116	34.8
16.	235.136	.930	.0063	.0115	35.5
17.	249.832	.880	.0066	.0111	37.4
18.	264.528	.830	.0069	.0109	38.7
19.	279.224	.790	.0070	.0108	39.4
20.	293.920	.750	.0073	.0104	41.3
25.	367.400	.600	.0073	.0104	41.3
30.	440.880	.500	.0073	.0104	41.3
35.	514.360	.430	.0074	.0103	41.9
40.	587.840	.370	.0076	.0102	42.6
45.	661.320	.330	.0080	.0097	45.2
50.	734.800	.300	.0089	.0088	50.3
55.	808.280	.270	.0094	.0084	52.9
60.	881.760	.250	.0097	.0080	54.8
65.	955.240	.230	.0101	.0077	56.8
70.	1028.720	.210	.0104	.0073	58.7
75.	1102.200	.200	.0104	.0073	58.7
80.	1175.680	.180	.0108	.0070	60.6
85.	1249.160	.170	.0109	.0069	61.3

POROSITY DATA FOR SAMPLE Y 1- 451.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0110	.0068	61.9
100.	1469.600	.150	.0110	.0068	61.9
110.	1616.560	.140	.0113	.0064	63.9
120.	1763.520	.130	.0117	.0061	65.8
130.	1910.480	.120	.0119	.0058	67.1
140.	2057.440	.110	.0119	.0058	67.1
150.	2204.400	.100	.0121	.0056	68.4
170.	2498.320	.088	.0125	.0053	70.3
180.	2645.280	.083	.0126	.0052	71.0
190.	2792.240	.079	.0131	.0047	73.5
200.	2939.200	.075	.0131	.0047	73.5
220.	3233.120	.068	.0131	.0047	73.5
240.	3527.040	.062	.0133	.0045	74.8
260.	3820.960	.057	.0135	.0042	76.1
280.	4114.880	.053	.0135	.0042	76.1
300.	4408.800	.050	.0140	.0038	78.7
330.	4849.680	.045	.0142	.0036	80.0
360.	5290.560	.041	.0142	.0036	80.0
390.	5731.440	.038	.0142	.0036	80.0
420.	6172.320	.035	.0144	.0033	81.3
450.	6613.200	.033	.0148	.0030	83.2
490.	7201.040	.030	.0150	.0027	84.5
510.	7494.960	.029	.0150	.0027	84.5
540.	7935.840	.027	.0151	.0026	85.2
570.	8670.640	.025	.0156	.0022	87.7
610.	8964.560	.024	.0156	.0022	87.7
640.	9405.440	.023	.0158	.0019	89.0
700.	10287.200	.021	.0158	.0019	89.0
740.	10975.040	.020	.0165	.0013	92.9
770.	11315.920	.019	.0165	.0013	92.9
800.	11756.800	.019	.0165	.0013	92.9
830.	12197.680	.018	.0170	.0008	95.5
860.	12638.560	.017	.0170	.0008	95.5
900.	13226.400	.017	.0173	.0005	97.4
930.	13667.280	.016	.0173	.0005	97.4
960.	13961.200	.016	.0175	.0002	98.7
1000.	14596.000	.014	.0178	.0000	100.0

SEQUENCE NUMBER 11
PORE VOLUME .016 CC/G

POROSITY DATA FOR SAMPLE Y 1- 471.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0157	.0
2.	29.392	7.500	.0021	.0136	13.4
3.	44.088	5.000	.0023	.0134	14.9
4.	58.784	3.700	.0029	.0128	18.7
5.	73.480	3.000	.0033	.0124	20.9
6.	88.176	2.500	.0034	.0123	21.6
7.	102.872	2.100	.0040	.0117	25.4
8.	117.568	1.800	.0040	.0117	25.4
9.	132.264	1.600	.0042	.0115	26.9
10.	146.960	1.500	.0045	.0113	28.4
11.	161.656	1.400	.0046	.0111	29.1
12.	176.352	1.300	.0047	.0110	29.9
13.	191.048	1.200	.0049	.0108	31.3
14.	205.744	1.100	.0052	.0106	32.8
15.	220.440	1.000	.0054	.0103	34.3
16.	235.136	.930	.0056	.0101	35.8
17.	249.832	.880	.0056	.0101	35.8
18.	264.528	.830	.0059	.0098	37.3
19.	279.224	.790	.0059	.0098	37.3
20.	293.920	.750	.0060	.0097	38.1
25.	367.400	.600	.0060	.0097	38.1
30.	440.880	.500	.0061	.0096	38.8
35.	514.360	.430	.0063	.0094	40.3
40.	587.840	.370	.0066	.0091	41.8
45.	661.320	.330	.0068	.0089	43.3
50.	734.800	.300	.0070	.0087	44.8
55.	808.280	.270	.0070	.0087	44.8
60.	881.760	.250	.0070	.0087	44.8
65.	955.240	.230	.0073	.0084	46.3
70.	1028.720	.210	.0075	.0082	47.8
75.	1102.200	.200	.0077	.0080	49.3
80.	1175.680	.180	.0080	.0077	50.7
85.	1249.160	.170	.0080	.0077	50.7

POROSITY DATA FOR SAMPLE Y 1- 471.

PRESSURE ATM	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0081	.0076	51.5
100.	1469.600	.150	.0081	.0076	51.5
110.	1616.560	.140	.0082	.0075	52.2
120.	1763.520	.130	.0082	.0075	52.2
130.	1910.480	.120	.0084	.0073	53.7
140.	2057.440	.110	.0087	.0070	55.2
150.	2204.400	.100	.0089	.0068	56.7
170.	2498.320	.088	.0091	.0066	58.2
180.	2645.280	.083	.0094	.0063	59.7
190.	2792.240	.079	.0094	.0063	59.7
200.	2939.200	.075	.0094	.0063	59.7
220.	3233.120	.068	.0095	.0062	60.4
240.	3527.040	.062	.0096	.0061	61.2
260.	3820.960	.057	.0098	.0059	62.7
280.	4114.880	.053	.0103	.0054	65.7
300.	4408.800	.050	.0104	.0053	66.4
330.	4849.680	.045	.0107	.0050	67.9
360.	5290.560	.041	.0108	.0049	68.7
390.	5731.440	.038	.0110	.0047	70.1
420.	6172.320	.035	.0113	.0045	71.6
450.	6613.200	.033	.0115	.0042	73.1
490.	7201.040	.030	.0117	.0040	74.6
510.	7494.960	.029	.0117	.0040	74.6
540.	7935.840	.027	.0120	.0038	76.1
590.	8670.640	.025	.0123	.0034	78.4
610.	8964.560	.024	.0125	.0032	79.9
640.	9405.440	.023	.0128	.0029	81.3
700.	10287.200	.021	.0131	.0026	83.6
740.	10875.040	.020	.0134	.0023	85.1
770.	11315.920	.019	.0136	.0021	86.6
800.	11756.800	.019	.0138	.0019	88.1
830.	12197.680	.018	.0141	.0016	89.6
860.	12638.560	.017	.0145	.0012	92.5
900.	13226.400	.017	.0148	.0009	94.0
930.	13667.240	.016	.0149	.0008	94.8
960.	13961.200	.016	.0152	.0005	97.0
1000.	14696.000	.014	.0157	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1- 491.

SEQUENCE NUMBER 13
PORE VOLUME .117 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0175	.0
2.	29.392	7.500	.0007	.0168	4.0
3.	44.088	5.000	.0012	.0163	6.7
4.	58.784	3.700	.0016	.0158	9.3
5.	73.480	3.000	.0021	.0154	12.0
6.	88.175	2.500	.0023	.0151	13.3
7.	102.872	2.100	.0026	.0149	14.7
8.	117.569	1.800	.0028	.0147	16.0
9.	132.264	1.600	.0030	.0144	17.3
10.	146.960	1.500	.0034	.0141	19.3
11.	161.655	1.400	.0036	.0139	20.7
12.	176.352	1.300	.0037	.0137	21.3
13.	191.048	1.200	.0040	.0135	22.7
14.	205.744	1.100	.0042	.0133	24.0
15.	220.440	1.000	.0044	.0130	25.3
16.	235.136	.930	.0047	.0128	26.7
17.	249.832	.880	.0050	.0125	28.7
18.	264.528	.830	.0051	.0123	29.3
19.	279.224	.790	.0051	.0123	29.3
20.	293.920	.750	.0054	.0121	30.7
25.	367.400	.600	.0054	.0121	30.7
30.	440.880	.500	.0054	.0121	30.7
35.	514.360	.430	.0056	.0119	32.0
40.	587.840	.370	.0058	.0117	33.3
45.	661.320	.330	.0063	.0112	36.0
50.	734.800	.300	.0068	.0107	38.7
55.	808.280	.270	.0072	.0103	41.3
60.	881.760	.250	.0077	.0098	44.0
65.	955.240	.230	.0079	.0096	45.3
70.	1028.720	.210	.0082	.0093	46.7
75.	1102.200	.200	.0084	.0091	48.0
80.	1175.680	.180	.0086	.0089	49.3
85.	1249.160	.170	.0089	.0086	50.7

POROSITY DATA FOR SAMPLE Y 1- 491.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0091	.0084	52.0
100.	1469.609	.150	.0093	.0082	53.3
110.	1616.560	.140	.0096	.0079	54.7
120.	1763.520	.130	.0100	.0075	57.3
130.	1910.480	.120	.0100	.0075	57.3
140.	2057.440	.110	.0103	.0072	58.7
150.	2204.400	.100	.0105	.0070	60.0
170.	2498.320	.088	.0107	.0068	61.3
180.	2645.280	.083	.0110	.0065	62.7
190.	2792.240	.079	.0112	.0063	64.0
200.	2939.200	.075	.0114	.0061	65.3
220.	3233.120	.068	.0114	.0061	65.3
240.	3527.040	.062	.0117	.0058	66.7
260.	3820.960	.057	.0119	.0056	68.0
280.	4114.880	.053	.0121	.0054	69.3
300.	4408.800	.050	.0123	.0051	70.7
330.	4849.680	.045	.0126	.0049	72.0
360.	5290.560	.041	.0128	.0047	73.3
390.	5731.440	.038	.0133	.0042	76.0
420.	6172.320	.035	.0133	.0042	76.0
450.	6613.200	.033	.0137	.0037	78.7
490.	7201.040	.030	.0140	.0035	80.0
510.	7494.960	.029	.0142	.0033	81.3
540.	7935.840	.027	.0144	.0030	82.7
590.	8670.640	.025	.0147	.0028	84.0
610.	8964.560	.024	.0149	.0026	85.3
660.	9405.440	.023	.0150	.0024	86.0
700.	10287.200	.021	.0155	.0020	88.7
740.	10875.040	.020	.0156	.0019	89.3
770.	11315.920	.019	.0161	.0014	92.0
800.	11756.800	.019	.0161	.0014	92.0
830.	12197.680	.018	.0164	.0010	94.0
860.	12638.560	.017	.0164	.0010	94.0
900.	13226.400	.017	.0168	.0007	96.0
930.	13667.280	.016	.0171	.0003	98.0
960.	13961.200	.016	.0171	.0003	98.0
1000.	14696.000	.014	.0175	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1- 521.

SEQUENCE NUMBER 15
PORE VOLUME .020 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0197	.0
2.	29.392	7.500	.0003	.0194	1.4
3.	44.088	5.000	.0003	.0194	1.4
4.	58.784	3.700	.0007	.0190	3.4
5.	73.480	3.000	.0008	.0189	4.1
6.	88.176	2.500	.0013	.0183	6.8
7.	102.872	2.100	.0022	.0175	11.0
8.	117.568	1.800	.0024	.0173	12.3
9.	132.264	1.600	.0030	.0167	15.1
10.	146.960	1.500	.0035	.0162	17.8
11.	161.656	1.400	.0038	.0159	19.2
12.	176.352	1.300	.0038	.0159	19.2
13.	191.048	1.200	.0043	.0154	21.9
14.	205.744	1.100	.0046	.0151	23.3
15.	220.440	1.000	.0051	.0146	26.0
16.	235.136	.930	.0054	.0143	27.4
17.	249.832	.880	.0055	.0142	28.1
18.	264.528	.830	.0057	.0140	28.8
19.	279.224	.790	.0059	.0138	30.1
20.	293.920	.750	.0065	.0132	32.9
25.	367.400	.600	.0065	.0132	32.9
30.	440.880	.500	.0065	.0132	32.9
35.	514.360	.430	.0069	.0128	34.9
40.	587.840	.370	.0073	.0124	37.0
45.	661.320	.330	.0077	.0120	39.0
50.	734.800	.300	.0081	.0116	41.1
55.	808.280	.270	.0084	.0113	42.5
60.	881.760	.250	.0086	.0111	43.8
65.	955.240	.230	.0090	.0107	45.9
70.	1028.720	.210	.0094	.0102	47.9
75.	1102.200	.200	.0098	.0098	50.0
90.	1175.680	.180	.0102	.0094	52.1
95.	1249.160	.170	.0102	.0094	52.1

POROSITY DATA FOR SAMPLE Y 1- 521.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0102	.0094	52.1
100.	1469.600	.150	.0105	.0092	53.4
110.	1616.560	.140	.0108	.0089	54.8
120.	1763.520	.130	.0109	.0088	55.5
130.	1910.480	.120	.0112	.0085	56.8
140.	2057.440	.110	.0115	.0082	58.2
150.	2204.400	.100	.0120	.0077	61.0
170.	2498.320	.088	.0121	.0076	61.6
180.	2645.280	.083	.0124	.0073	63.0
190.	2792.240	.079	.0124	.0073	63.0
200.	2939.200	.075	.0124	.0073	63.0
220.	3233.120	.068	.0127	.0070	64.4
240.	3527.040	.062	.0133	.0063	67.8
260.	3820.960	.057	.0133	.0063	67.8
280.	4114.880	.053	.0136	.0061	69.2
300.	4408.800	.050	.0138	.0059	69.9
330.	4849.680	.045	.0142	.0055	71.9
360.	5290.560	.041	.0142	.0055	71.9
390.	5731.440	.038	.0143	.0054	72.6
420.	6172.320	.035	.0148	.0049	75.3
450.	6613.200	.033	.0151	.0046	76.7
480.	7201.040	.030	.0154	.0043	78.1
510.	7494.960	.029	.0154	.0043	78.1
540.	7935.840	.027	.0156	.0040	79.5
570.	8670.640	.025	.0160	.0036	81.5
610.	8964.560	.024	.0163	.0034	82.9
640.	9405.440	.023	.0164	.0032	83.6
700.	10287.200	.021	.0170	.0027	86.3
740.	10875.040	.020	.0174	.0023	88.4
770.	11315.920	.019	.0177	.0020	89.7
800.	11756.800	.019	.0178	.0019	90.4
830.	12197.680	.018	.0186	.0011	94.5
860.	12638.560	.017	.0186	.0011	94.5
900.	13226.400	.017	.0186	.0011	94.5
930.	13667.280	.016	.0190	.0007	96.6
960.	13961.200	.016	.0190	.0007	96.6
1000.	14696.000	.014	.0197	.0000	100.0

SEQUENCE NUMBER 19
PORE VOLUME .014 CC/G

POROSITY DATA FOR SAMPLE Y 1- 975.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0139	.0
2.	29.392	7.500	.0010	.0129	7.2
3.	44.088	5.000	.0010	.0129	7.2
4.	58.784	3.700	.0011	.0128	8.1
5.	73.480	3.000	.0011	.0128	8.1
6.	88.176	2.500	.0013	.0127	9.0
7.	102.872	2.100	.0015	.0124	10.8
8.	117.568	1.800	.0020	.0119	14.4
9.	132.264	1.600	.0023	.0117	16.2
10.	146.960	1.500	.0025	.0114	18.0
11.	161.656	1.400	.0028	.0112	19.8
12.	176.352	1.300	.0028	.0112	19.8
13.	191.048	1.200	.0030	.0109	21.6
14.	205.744	1.100	.0033	.0107	23.4
15.	220.440	1.000	.0035	.0104	25.2
16.	235.136	.930	.0035	.0104	25.2
17.	249.832	.880	.0036	.0103	26.1
18.	264.528	.830	.0038	.0102	27.0
19.	279.224	.790	.0038	.0102	27.0
20.	293.920	.750	.0039	.0100	27.9
25.	367.408	.600	.0039	.0100	27.9
30.	440.880	.500	.0039	.0100	27.9
35.	514.360	.430	.0040	.0099	28.8
40.	587.840	.370	.0043	.0096	30.6
45.	661.320	.330	.0046	.0093	33.3
50.	734.800	.300	.0050	.0089	36.0
55.	808.280	.270	.0051	.0088	36.9
60.	881.760	.250	.0053	.0086	37.8
65.	955.240	.230	.0054	.0085	38.7
70.	1028.720	.210	.0055	.0084	39.6
75.	1102.200	.200	.0056	.0083	40.5
80.	1175.680	.180	.0058	.0081	41.4
85.	1249.160	.170	.0059	.0080	42.3

POROSITY DATA FOR SAMPLE Y 1- 975.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0060	.0079	43.2
100.	1469.600	.150	.0063	.0076	45.0
110.	1616.560	.140	.0063	.0076	45.0
120.	1763.520	.130	.0066	.0073	47.7
130.	1910.480	.120	.0068	.0071	48.6
140.	2057.440	.110	.0070	.0069	50.5
150.	2204.400	.100	.0070	.0069	50.5
170.	2498.320	.088	.0074	.0065	53.2
180.	2645.280	.083	.0075	.0064	54.1
190.	2792.240	.079	.0076	.0063	55.0
200.	2939.200	.075	.0076	.0063	55.0
220.	3233.120	.068	.0078	.0061	55.9
240.	3527.040	.062	.0081	.0058	58.6
260.	3820.960	.057	.0085	.0054	61.3
280.	4114.880	.053	.0088	.0051	63.1
300.	4408.800	.050	.0088	.0051	63.1
330.	4849.680	.045	.0093	.0046	66.7
360.	5290.560	.041	.0095	.0044	68.5
390.	5731.440	.038	.0098	.0041	70.3
420.	6172.320	.035	.0100	.0039	72.1
450.	6613.200	.033	.0103	.0036	73.9
480.	7054.080	.030	.0104	.0035	74.8
510.	7494.960	.029	.0107	.0033	76.6
540.	7935.840	.027	.0110	.0029	79.3
590.	8670.640	.025	.0114	.0025	82.0
610.	8964.560	.024	.0117	.0023	83.8
640.	9405.440	.023	.0117	.0023	83.8
700.	10287.200	.021	.0120	.0019	86.5
740.	10875.040	.020	.0123	.0016	88.3
770.	11315.920	.019	.0125	.0014	90.1
800.	11756.800	.019	.0127	.0013	91.0
830.	12197.680	.018	.0128	.0011	91.9
860.	12638.560	.017	.0129	.0010	92.8
900.	13226.400	.017	.0130	.0009	93.7
930.	13667.280	.016	.0133	.0006	95.5
960.	13961.200	.016	.0135	.0004	97.3
1000.	14696.000	.014	.0139	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1- 995.

SEQUENCE NUMBER 21
PORE VOLUME .015 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0151	.0
2.	29.392	7.500	.0007	.0144	4.5
3.	44.089	5.000	.0008	.0143	5.5
4.	58.784	3.700	.0008	.0143	5.5
5.	73.480	3.000	.0010	.0141	6.4
6.	88.176	2.500	.0010	.0141	6.4
7.	102.872	2.100	.0011	.0140	7.3
8.	117.568	1.800	.0011	.0140	7.3
9.	132.264	1.600	.0012	.0139	8.2
10.	146.960	1.500	.0012	.0139	8.2
11.	161.656	1.400	.0014	.0137	9.1
12.	176.352	1.300	.0019	.0132	12.7
13.	191.048	1.200	.0022	.0129	14.5
14.	205.744	1.100	.0025	.0126	16.4
15.	220.440	1.000	.0027	.0124	18.2
16.	235.136	.930	.0027	.0124	18.2
17.	249.832	.880	.0034	.0117	22.7
18.	264.528	.830	.0037	.0114	24.5
19.	279.224	.790	.0040	.0111	26.4
20.	293.920	.750	.0041	.0110	27.3
25.	367.400	.600	.0043	.0108	28.2
30.	440.880	.500	.0044	.0107	29.1
35.	514.360	.430	.0047	.0104	30.9
40.	587.840	.370	.0049	.0102	32.7
45.	661.320	.330	.0055	.0096	36.4
50.	734.800	.300	.0060	.0091	40.0
55.	808.280	.270	.0063	.0088	41.8
60.	881.760	.250	.0066	.0085	43.6
65.	955.240	.230	.0067	.0084	44.5
70.	1028.720	.210	.0069	.0082	45.5
75.	1102.200	.200	.0071	.0080	47.3
80.	1175.680	.180	.0074	.0077	49.1
85.	1249.160	.170	.0077	.0074	50.9

POROSITY DATA FOR SAMPLE Y 1- 995.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0080	.0071	52.7
100.	1469.603	.150	.0082	.0069	54.5
110.	1616.560	.140	.0082	.0069	54.5
120.	1763.520	.130	.0082	.0069	54.5
130.	1910.480	.120	.0088	.0063	58.2
140.	2057.440	.110	.0091	.0060	60.0
150.	2204.400	.100	.0093	.0058	61.8
176.	2498.320	.088	.0093	.0058	61.8
180.	2645.280	.083	.0095	.0056	62.7
190.	2792.240	.079	.0096	.0055	63.6
200.	2939.200	.075	.0096	.0055	63.6
220.	3233.120	.068	.0099	.0052	65.5
240.	3527.040	.062	.0102	.0049	67.3
260.	3820.960	.057	.0104	.0047	69.1
280.	4114.880	.053	.0107	.0044	70.9
300.	4408.800	.050	.0107	.0044	70.9
330.	4849.580	.045	.0110	.0041	72.7
360.	5290.560	.041	.0113	.0038	74.5
390.	5731.440	.038	.0113	.0038	74.5
420.	6172.320	.035	.0115	.0036	76.4
450.	6613.200	.033	.0121	.0030	80.0
490.	7201.040	.030	.0121	.0030	80.0
510.	7494.960	.029	.0122	.0029	80.9
540.	7935.840	.027	.0125	.0026	82.7
590.	8670.640	.025	.0126	.0025	83.6
610.	8964.560	.024	.0129	.0022	85.5
640.	9405.440	.023	.0132	.0019	87.3
700.	10287.200	.021	.0135	.0016	89.1
740.	10875.040	.020	.0137	.0014	90.9
770.	11315.920	.019	.0137	.0014	90.9
800.	11756.800	.019	.0140	.0011	92.7
830.	12197.680	.018	.0141	.0010	93.6
860.	12638.560	.017	.0143	.0008	94.5
900.	13226.400	.017	.0146	.0005	96.4
930.	13667.280	.016	.0148	.0003	98.2
960.	13961.200	.016	.0148	.0003	98.2
1000.	14696.000	.014	.0151	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-1014.

SEQUENCE NUMBER 23
PORE VOLUME .033 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0326	.0
2.	29.392	7.500	.0007	.0319	2.2
3.	44.088	5.000	.0008	.0317	2.6
4.	58.784	3.700	.0011	.0314	3.4
5.	73.480	3.000	.0014	.0312	4.3
6.	88.176	2.500	.0025	.0300	7.8
7.	102.872	2.100	.0031	.0295	9.5
8.	117.568	1.800	.0042	.0283	12.9
9.	132.264	1.600	.0049	.0276	15.1
10.	146.960	1.500	.0059	.0267	18.1
11.	161.656	1.400	.0067	.0258	20.7
12.	176.352	1.300	.0072	.0254	22.0
13.	191.048	1.200	.0076	.0250	23.3
14.	205.744	1.100	.0084	.0241	25.9
15.	220.440	1.000	.0084	.0241	25.9
16.	235.136	.930	.0090	.0236	27.6
17.	249.832	.880	.0097	.0229	29.7
18.	264.528	.830	.0097	.0229	29.7
19.	279.224	.790	.0101	.0225	31.0
20.	293.920	.750	.0104	.0222	31.9
25.	367.400	.600	.0105	.0220	32.3
30.	440.880	.500	.0107	.0219	32.8
35.	514.360	.430	.0114	.0212	34.9
40.	587.840	.370	.0121	.0205	37.1
45.	661.320	.330	.0125	.0201	38.4
50.	734.800	.300	.0129	.0196	39.7
55.	808.280	.270	.0130	.0195	40.1
60.	881.760	.250	.0132	.0194	40.5
65.	955.240	.230	.0138	.0188	42.2
70.	1028.720	.210	.0143	.0182	44.0
75.	1102.200	.200	.0150	.0175	46.1
80.	1175.680	.180	.0157	.0168	48.3
85.	1249.160	.170	.0166	.0160	50.9

POROSITY DATA FOR SAMPLE Y 1-1014.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0174	.0152	53.4
100.	1469.600	.150	.0174	.0152	53.4
110.	1616.560	.140	.0182	.0143	56.0
120.	1763.520	.130	.0188	.0138	57.8
130.	1910.480	.120	.0202	.0123	62.1
140.	2057.440	.110	.0205	.0121	62.9
150.	2204.400	.100	.0210	.0115	64.7
170.	2498.320	.088	.0219	.0107	67.2
190.	2545.280	.083	.0225	.0101	69.0
190.	2792.240	.079	.0230	.0095	70.7
200.	2939.200	.075	.0233	.0093	71.6
220.	3233.120	.068	.0239	.0087	73.3
240.	3527.040	.062	.0239	.0087	73.3
250.	3820.960	.057	.0254	.0072	78.0
280.	4114.880	.053	.0255	.0070	78.4
300.	4408.800	.050	.0260	.0066	79.7
330.	4849.680	.045	.0267	.0059	81.9
360.	5290.560	.041	.0272	.0053	83.6
390.	5731.440	.038	.0275	.0051	84.5
420.	6172.320	.035	.0279	.0046	85.8
450.	6613.200	.033	.0283	.0042	87.1
470.	7201.040	.030	.0289	.0036	88.8
510.	7494.960	.029	.0295	.0031	90.5
540.	7935.840	.027	.0295	.0031	90.5
590.	8570.640	.025	.0297	.0028	91.4
610.	8964.560	.024	.0300	.0025	92.2
640.	9405.440	.023	.0303	.0022	93.1
700.	10287.200	.021	.0309	.0017	94.8
740.	10875.040	.020	.0314	.0011	96.6
770.	11315.920	.019	.0314	.0011	96.6
800.	11756.800	.019	.0317	.0008	97.4
830.	12197.680	.018	.0317	.0008	97.4
850.	12638.560	.017	.0320	.0006	98.3
900.	13226.400	.017	.0323	.0003	99.1
930.	13667.280	.016	.0324	.0001	99.6
960.	13961.200	.016	.0326	.0000	100.0
1000.	14696.000	.014	.0326	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-1340.

SEQUENCE NUMBER 25
PORE VOLUME .027 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0273	.0
2.	29.392	7.500	.0011	.0262	4.0
3.	44.089	5.000	.0011	.0262	4.0
4.	58.784	3.700	.0012	.0261	4.5
5.	73.480	3.000	.0021	.0252	7.5
6.	88.176	2.500	.0027	.0246	10.1
7.	102.872	2.100	.0041	.0232	15.1
8.	117.569	1.800	.0048	.0225	17.6
9.	132.264	1.600	.0055	.0218	20.1
10.	146.960	1.500	.0060	.0213	22.1
11.	161.656	1.400	.0066	.0207	24.1
12.	176.352	1.300	.0069	.0204	25.1
13.	191.049	1.200	.0082	.0191	30.2
14.	205.744	1.100	.0091	.0182	33.2
15.	220.440	1.000	.0093	.0180	34.2
16.	235.136	.930	.0096	.0177	35.2
17.	249.832	.880	.0096	.0177	35.2
18.	264.528	.830	.0099	.0174	36.2
19.	279.224	.790	.0099	.0174	36.2
20.	293.920	.750	.0099	.0174	36.2
25.	367.400	.600	.0099	.0174	36.2
30.	440.880	.500	.0099	.0174	36.2
35.	514.360	.430	.0108	.0165	39.7
40.	587.840	.370	.0118	.0155	43.2
45.	661.320	.330	.0125	.0148	45.7
50.	734.800	.300	.0132	.0141	48.2
55.	808.280	.270	.0139	.0134	50.8
60.	881.760	.250	.0145	.0128	53.3
65.	955.240	.230	.0152	.0121	55.8
70.	1028.720	.210	.0159	.0114	58.3
75.	1102.200	.200	.0162	.0111	59.3
80.	1175.680	.180	.0165	.0108	60.3
85.	1249.160	.170	.0167	.0106	61.3

POROSITY DATA FOR SAMPLE Y 1-1340.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0170	.0103	62.3
100.	1469.600	.150	.0174	.0099	63.8
110.	1616.560	.140	.0178	.0095	65.3
120.	1763.520	.130	.0178	.0095	65.3
130.	1910.480	.120	.0184	.0089	67.3
140.	2057.440	.110	.0187	.0086	68.3
150.	2204.400	.100	.0189	.0084	69.3
170.	2498.320	.088	.0192	.0081	70.4
180.	2645.280	.083	.0193	.0080	70.9
190.	2792.240	.079	.0195	.0078	71.4
200.	2939.200	.075	.0198	.0075	72.4
220.	3233.120	.068	.0203	.0070	74.4
240.	3527.040	.062	.0204	.0069	74.9
260.	3820.960	.057	.0207	.0066	75.9
280.	4114.880	.053	.0208	.0064	76.4
300.	4408.800	.050	.0211	.0062	77.4
330.	4849.680	.045	.0211	.0062	77.4
360.	5290.560	.041	.0211	.0062	77.4
370.	5731.440	.038	.0219	.0053	80.4
420.	6172.320	.035	.0222	.0051	81.4
450.	6613.200	.033	.0226	.0047	82.9
490.	7201.040	.030	.0230	.0043	84.4
510.	7494.960	.029	.0230	.0043	84.4
540.	7935.840	.027	.0233	.0040	85.4
570.	8376.720	.025	.0237	.0036	86.9
610.	8817.600	.024	.0240	.0033	87.9
640.	9258.480	.023	.0240	.0033	87.9
700.	10287.200	.021	.0248	.0025	91.0
740.	10875.040	.020	.0252	.0021	92.5
770.	11315.920	.019	.0255	.0018	93.5
800.	11756.800	.019	.0258	.0015	94.5
830.	12197.680	.018	.0261	.0012	95.5
860.	12638.560	.017	.0261	.0012	95.5
900.	13226.400	.017	.0263	.0010	96.5
930.	13667.280	.016	.0267	.0005	98.0
960.	13961.200	.016	.0270	.0003	99.0
1000.	14696.000	.014	.0273	.0000	100.0

SEQUENCE NUMBER 27
PORE VOLUME .026 CC/G

POROSITY DATA FOR SAMPLE Y 1-1360.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0259	.0
2.	29.392	7.500	.0009	.0250	3.4
3.	44.088	5.000	.0011	.0248	4.3
4.	58.784	3.700	.0015	.0244	5.8
5.	73.480	3.000	.0019	.0240	7.2
6.	88.175	2.500	.0025	.0234	9.6
7.	102.872	2.100	.0030	.0229	11.5
8.	117.568	1.800	.0032	.0227	12.5
9.	132.264	1.600	.0037	.0222	14.4
10.	146.960	1.500	.0052	.0207	20.2
11.	161.656	1.400	.0060	.0199	23.1
12.	176.352	1.300	.0070	.0189	26.9
13.	191.048	1.200	.0077	.0182	29.8
14.	205.744	1.100	.0087	.0172	33.7
15.	220.440	1.000	.0092	.0167	35.6
16.	235.135	.930	.0097	.0162	37.5
17.	249.832	.880	.0100	.0159	38.5
18.	264.528	.830	.0107	.0152	41.3
19.	279.224	.790	.0112	.0147	43.3
20.	293.920	.750	.0122	.0137	47.1
25.	367.400	.600	.0123	.0136	47.6
30.	440.880	.500	.0125	.0135	48.1
35.	514.360	.430	.0131	.0128	50.5
40.	587.840	.370	.0137	.0122	52.9
45.	661.320	.330	.0146	.0113	56.3
50.	734.800	.300	.0154	.0105	59.6
55.	808.280	.270	.0162	.0097	62.5
60.	881.760	.250	.0169	.0090	65.4
65.	955.240	.230	.0172	.0087	66.3
70.	1028.720	.210	.0174	.0085	67.3
75.	1102.200	.200	.0177	.0082	68.3
80.	1175.680	.180	.0179	.0080	69.2
85.	1249.160	.170	.0181	.0078	69.7

POROSITY DATA FOR SAMPLE Y 1-1360.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0182	.0077	70.2
100.	1469.600	.150	.0182	.0077	70.2
110.	1616.560	.140	.0187	.0072	72.1
120.	1763.520	.130	.0189	.0070	73.1
130.	1910.480	.120	.0192	.0067	74.0
140.	2057.440	.110	.0197	.0062	76.0
150.	2204.400	.100	.0198	.0061	76.4
170.	2498.320	.088	.0199	.0060	76.9
180.	2645.280	.083	.0199	.0060	76.9
190.	2792.240	.079	.0202	.0057	77.9
200.	2939.200	.075	.0204	.0055	78.8
220.	3233.120	.068	.0209	.0050	80.8
240.	3527.040	.062	.0210	.0049	81.3
260.	3920.960	.057	.0212	.0047	81.7
280.	4114.880	.053	.0213	.0046	82.2
300.	4408.800	.050	.0214	.0045	82.7
330.	4849.680	.045	.0217	.0042	83.7
360.	5290.560	.041	.0222	.0037	85.6
390.	5731.440	.038	.0224	.0035	86.5
420.	6172.320	.035	.0224	.0035	86.5
450.	6613.200	.033	.0227	.0032	87.5
480.	7201.040	.030	.0228	.0031	88.0
510.	7494.960	.029	.0229	.0030	88.5
540.	7935.840	.027	.0233	.0026	89.9
590.	8679.640	.025	.0235	.0024	90.9
610.	8964.560	.024	.0238	.0021	91.8
640.	9405.440	.023	.0239	.0020	92.3
700.	10287.200	.021	.0242	.0017	93.3
740.	10875.040	.020	.0244	.0015	94.2
770.	11315.920	.019	.0247	.0012	95.2
800.	11756.800	.019	.0249	.0010	96.2
830.	12197.680	.018	.0249	.0010	96.2
860.	12638.560	.017	.0250	.0009	96.6
900.	13226.400	.017	.0252	.0007	97.1
930.	13667.280	.016	.0254	.0005	98.1
960.	13961.200	.016	.0255	.0004	98.6
1000.	14696.000	.014	.0259	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-1380.

SEQUENCE NUMBER 29
PORE VOLUME .017 CC/G

PRESSURE ATMS	PRESSURE PSI	PORF DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0168	.0
2.	29.392	7.500	.0009	.0159	5.6
3.	44.089	5.000	.0009	.0159	5.6
4.	58.785	3.700	.0009	.0159	5.6
5.	73.480	3.000	.0009	.0159	5.6
6.	88.175	2.500	.0009	.0159	5.6
7.	102.872	2.100	.0009	.0159	5.6
8.	117.568	1.800	.0012	.0156	7.0
9.	132.264	1.600	.0014	.0154	8.5
10.	146.960	1.500	.0018	.0150	10.6
11.	161.656	1.400	.0022	.0146	13.4
12.	176.352	1.300	.0026	.0142	15.5
13.	191.048	1.200	.0026	.0142	15.5
14.	205.744	1.100	.0026	.0142	15.5
15.	220.440	1.000	.0028	.0140	16.9
16.	235.136	.930	.0031	.0137	18.3
17.	249.832	.880	.0032	.0136	19.0
18.	264.528	.830	.0033	.0135	19.7
19.	279.224	.790	.0036	.0133	21.1
20.	293.920	.750	.0038	.0130	22.5
25.	367.400	.600	.0039	.0129	23.2
30.	440.880	.500	.0040	.0128	23.9
35.	514.360	.430	.0049	.0120	28.9
40.	587.840	.370	.0057	.0111	33.8
45.	661.320	.330	.0063	.0105	37.3
50.	734.800	.300	.0069	.0099	40.8
55.	808.280	.270	.0070	.0098	41.5
60.	881.760	.250	.0071	.0097	42.3
65.	955.240	.230	.0077	.0091	45.8
70.	1028.720	.210	.0083	.0085	49.3
75.	1102.200	.200	.0086	.0082	51.4
80.	1175.680	.180	.0090	.0078	53.5
85.	1249.160	.170	.0092	.0076	54.9

POROSITY DATA FOR SAMPLE Y 1-1380.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0095	.0073	56.3
100.	1469.600	.150	.0099	.0069	59.2
110.	1616.560	.140	.0102	.0066	60.6
120.	1763.520	.130	.0104	.0064	62.0
130.	1910.480	.120	.0105	.0063	62.7
140.	2057.440	.110	.0111	.0057	66.2
150.	2204.400	.100	.0111	.0057	66.2
170.	2498.320	.088	.0114	.0054	67.6
190.	2645.280	.083	.0116	.0052	69.0
190.	2792.240	.079	.0116	.0052	69.0
200.	2939.200	.075	.0118	.0050	70.4
220.	3233.120	.068	.0120	.0049	71.1
240.	3527.040	.062	.0123	.0045	73.2
250.	3820.960	.057	.0123	.0045	73.2
290.	4114.880	.053	.0127	.0041	75.4
300.	4408.800	.050	.0129	.0039	76.8
330.	4849.680	.045	.0131	.0037	78.2
360.	5290.560	.041	.0131	.0037	78.2
390.	5731.440	.038	.0134	.0034	79.6
420.	6172.320	.035	.0136	.0032	81.0
450.	6613.200	.033	.0140	.0028	83.1
490.	7201.040	.030	.0142	.0026	84.5
510.	7494.960	.029	.0142	.0026	84.5
540.	7935.840	.027	.0142	.0026	84.5
590.	8670.640	.025	.0147	.0021	87.3
610.	8964.560	.024	.0147	.0021	87.3
640.	9405.440	.023	.0149	.0019	88.7
700.	10287.200	.021	.0155	.0013	92.3
740.	10875.040	.020	.0156	.0012	93.0
770.	11315.920	.019	.0156	.0012	93.0
800.	11756.800	.019	.0157	.0011	93.7
830.	12197.680	.018	.0160	.0008	95.1
860.	12638.560	.017	.0162	.0006	96.5
900.	13226.400	.017	.0164	.0004	97.9
930.	13667.280	.016	.0167	.0001	99.3
960.	13961.200	.016	.0167	.0001	99.3
1000.	14696.000	.014	.0168	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-1400.

SEQUENCE NUMBER 31
PORE VOLUME .017 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0174	.0
2.	29.392	7.500	.0007	.0167	4.0
3.	44.088	5.000	.0007	.0167	4.0
4.	58.784	3.700	.0008	.0165	4.8
5.	73.480	3.000	.0008	.0165	4.8
6.	88.176	2.500	.0008	.0165	4.8
7.	102.872	2.100	.0011	.0162	6.5
8.	117.568	1.800	.0020	.0154	11.3
9.	132.264	1.600	.0022	.0151	12.9
10.	146.960	1.500	.0028	.0146	16.1
11.	161.656	1.400	.0028	.0146	16.1
12.	176.352	1.300	.0036	.0137	21.0
13.	191.048	1.200	.0042	.0132	24.2
14.	205.744	1.100	.0043	.0130	25.0
15.	220.440	1.000	.0045	.0129	25.8
16.	235.136	.930	.0048	.0126	27.4
17.	249.832	.880	.0053	.0120	30.6
18.	264.528	.830	.0057	.0116	33.1
19.	279.224	.790	.0059	.0115	33.9
20.	293.920	.750	.0062	.0112	35.5
25.	367.400	.600	.0062	.0112	35.5
30.	440.880	.500	.0062	.0112	35.5
35.	514.360	.430	.0066	.0108	37.9
40.	587.840	.370	.0070	.0104	40.3
45.	661.320	.330	.0073	.0101	41.9
50.	734.800	.300	.0076	.0098	43.5
55.	808.280	.270	.0078	.0095	45.2
60.	881.760	.250	.0081	.0092	46.8
65.	955.240	.230	.0084	.0090	48.4
70.	1028.720	.210	.0087	.0087	50.0
75.	1102.200	.200	.0088	.0085	50.8
80.	1175.680	.180	.0090	.0084	51.6
85.	1249.160	.170	.0091	.0083	52.4

POROSITY DATA FOR SAMPLE Y 1-1400.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0092	.0081	53.2
100.	1469.600	.150	.0095	.0078	54.8
110.	1616.560	.140	.0098	.0076	56.5
120.	1763.520	.130	.0098	.0076	56.5
130.	1910.480	.120	.0098	.0076	56.5
140.	2057.440	.110	.0101	.0073	58.1
150.	2204.400	.100	.0101	.0073	58.1
170.	2498.320	.088	.0104	.0070	59.7
190.	2645.280	.083	.0109	.0064	62.9
190.	2792.240	.079	.0109	.0064	62.9
200.	2939.200	.075	.0111	.0063	63.7
220.	3233.120	.068	.0111	.0063	63.7
240.	3527.040	.062	.0112	.0062	64.5
260.	3820.960	.057	.0113	.0060	65.3
280.	4114.880	.053	.0116	.0057	66.9
300.	4408.800	.050	.0116	.0057	66.9
330.	4949.680	.045	.0120	.0053	69.4
360.	5290.560	.041	.0123	.0050	71.0
390.	5731.440	.038	.0126	.0048	72.6
420.	6172.320	.035	.0127	.0046	73.4
450.	6613.200	.033	.0132	.0042	75.8
490.	7201.040	.030	.0136	.0038	78.2
510.	7494.960	.029	.0136	.0038	78.2
540.	7935.840	.027	.0139	.0035	79.8
590.	8670.640	.025	.0141	.0032	81.5
610.	8964.560	.024	.0143	.0031	82.3
640.	9405.440	.023	.0146	.0028	83.9
700.	10287.200	.021	.0151	.0022	87.1
740.	10875.040	.020	.0154	.0020	88.7
770.	11315.920	.019	.0157	.0017	90.3
800.	11756.800	.019	.0160	.0014	91.9
830.	12197.680	.018	.0165	.0008	95.2
860.	12638.560	.017	.0165	.0008	95.2
900.	13226.400	.017	.0167	.0007	96.0
930.	13667.280	.016	.0169	.0004	97.6
960.	13961.200	.016	.0171	.0003	98.4
1000.	14696.960	.014	.0174	.0000	100.0

SEQUENCE NUMBER 33
PORE VOLUME .J16 CC/G

POROSITY DATA FOR SAMPLE Y 1-1420.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0158	.0
2.	29.392	7.500	.0008	.0150	5.1
3.	44.088	5.000	.0008	.0150	5.1
4.	58.784	3.700	.0008	.0150	5.1
5.	73.480	3.000	.0010	.0148	6.3
6.	88.176	2.500	.0016	.0142	10.1
7.	102.872	2.100	.0020	.0138	12.7
8.	117.568	1.800	.0024	.0134	15.2
9.	132.264	1.600	.0028	.0130	17.7
10.	146.960	1.500	.0031	.0127	19.6
11.	161.656	1.400	.0034	.0124	21.5
12.	176.352	1.300	.0038	.0120	24.1
13.	191.048	1.200	.0042	.0116	26.6
14.	205.744	1.100	.0046	.0112	29.1
15.	220.440	1.000	.0048	.0110	30.4
16.	235.136	.930	.0050	.0108	31.6
17.	249.832	.880	.0052	.0106	32.9
18.	264.528	.830	.0054	.0104	34.2
19.	279.224	.790	.0056	.0102	35.4
20.	293.920	.750	.0060	.0098	38.0
25.	367.400	.600	.0060	.0098	38.0
30.	440.880	.500	.0060	.0098	38.0
35.	514.360	.430	.0063	.0095	39.9
40.	587.840	.370	.0066	.0092	41.8
45.	661.320	.330	.0069	.0089	43.7
50.	734.800	.300	.0072	.0086	45.6
55.	808.280	.270	.0077	.0081	48.7
60.	881.760	.250	.0082	.0076	51.9
65.	955.240	.230	.0083	.0075	52.5
70.	1028.720	.210	.0084	.0074	53.2
75.	1102.200	.200	.0087	.0071	55.1
80.	1175.680	.180	.0090	.0068	57.0
85.	1249.160	.170	.0091	.0067	57.6

POROSITY DATA FOR SAMPLE Y 1-1420.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0092	.0066	58.2
100.	1469.600	.150	.0094	.0064	59.5
110.	1616.560	.140	.0098	.0060	62.0
120.	1763.520	.130	.0100	.0058	63.3
130.	1910.480	.120	.0100	.0058	63.3
140.	2057.440	.110	.0101	.0057	63.9
150.	2204.400	.100	.0104	.0054	65.8
170.	2498.320	.088	.0108	.0050	68.4
190.	2645.280	.083	.0108	.0050	68.4
190.	2792.240	.079	.0109	.0049	69.0
200.	2939.200	.075	.0109	.0049	69.0
220.	3233.120	.068	.0111	.0047	70.3
240.	3527.040	.062	.0114	.0044	72.2
260.	3820.960	.057	.0117	.0041	74.1
280.	4114.880	.053	.0119	.0039	75.3
300.	4408.800	.050	.0120	.0038	75.9
330.	4849.680	.045	.0121	.0037	76.6
360.	5290.560	.041	.0122	.0036	77.2
390.	5731.440	.038	.0124	.0034	78.5
420.	6172.320	.035	.0126	.0032	79.7
450.	6613.200	.033	.0128	.0030	81.0
490.	7201.040	.030	.0130	.0028	82.3
510.	7494.960	.029	.0134	.0024	84.8
540.	7935.840	.027	.0134	.0024	84.8
590.	8670.640	.025	.0138	.0020	87.3
610.	8964.560	.024	.0138	.0020	87.3
640.	9405.440	.023	.0139	.0019	88.0
700.	10287.200	.021	.0142	.0016	89.9
740.	10875.040	.020	.0144	.0014	91.1
770.	11315.920	.019	.0146	.0012	92.4
800.	11756.800	.019	.0148	.0010	93.7
830.	12197.680	.018	.0148	.0010	93.7
860.	12638.560	.017	.0150	.0008	94.9
900.	13226.400	.017	.0152	.0006	96.2
930.	13667.280	.016	.0154	.0004	97.5
960.	13961.200	.016	.0154	.0004	97.5
1000.	14696.000	.014	.0158	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-1440.

SEQUENCE NUMBER 35
PORE VOLUME .020 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0205	.0
2.	29.392	7.500	.0002	.0203	1.1
3.	44.088	5.000	.0002	.0203	1.1
4.	58.784	3.700	.0002	.0203	1.1
5.	73.480	3.000	.0006	.0198	3.2
6.	88.176	2.500	.0013	.0192	6.3
7.	102.872	2.100	.0019	.0185	9.5
8.	117.568	1.800	.0023	.0182	11.1
9.	132.264	1.600	.0028	.0177	13.8
10.	146.960	1.500	.0032	.0172	15.9
11.	161.656	1.400	.0038	.0167	18.5
12.	176.352	1.300	.0041	.0164	20.1
13.	191.048	1.200	.0048	.0157	23.3
14.	205.744	1.100	.0048	.0157	23.3
15.	220.440	1.000	.0050	.0155	24.3
16.	235.136	.930	.0054	.0151	26.5
17.	249.832	.880	.0056	.0148	27.5
18.	264.528	.830	.0056	.0148	27.5
19.	279.224	.790	.0061	.0144	29.6
20.	293.920	.750	.0064	.0141	31.2
25.	367.400	.600	.0064	.0141	31.2
30.	440.880	.500	.0064	.0141	31.2
35.	514.360	.430	.0064	.0141	31.2
40.	587.840	.370	.0065	.0140	31.7
45.	661.320	.330	.0070	.0134	34.4
50.	734.800	.300	.0076	.0129	37.0
55.	808.280	.270	.0079	.0126	38.6
60.	881.760	.250	.0082	.0122	40.2
65.	955.240	.230	.0083	.0121	40.7
70.	1028.720	.210	.0084	.0120	41.3
75.	1102.200	.200	.0088	.0117	42.9
80.	1175.680	.180	.0091	.0114	44.4
85.	1249.160	.170	.0093	.0112	45.5

POROSITY DATA FOR SAMPLE Y 1-1440.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0095	.0109	46.6
100.	1469.600	.150	.0097	.0107	47.6
110.	1616.560	.140	.0100	.0105	48.7
120.	1763.520	.130	.0102	.0103	49.7
130.	1910.480	.120	.0104	.0101	50.8
140.	2057.440	.110	.0108	.0096	52.9
150.	2204.400	.100	.0110	.0094	54.0
170.	2498.320	.088	.0113	.0092	55.0
190.	2645.280	.083	.0118	.0087	57.7
190.	2792.240	.079	.0118	.0087	57.7
200.	2939.200	.075	.0121	.0083	59.3
220.	3233.120	.068	.0128	.0077	62.4
240.	3527.040	.062	.0131	.0074	64.0
260.	3920.960	.057	.0134	.0070	65.6
290.	4114.880	.053	.0139	.0066	67.7
300.	4408.800	.050	.0142	.0063	69.3
330.	4849.680	.045	.0146	.0058	71.4
360.	5290.560	.041	.0153	.0052	74.6
390.	5731.440	.038	.0158	.0047	77.2
420.	6172.320	.035	.0162	.0042	79.4
450.	6613.200	.033	.0165	.0040	80.4
490.	7201.040	.030	.0169	.0036	82.5
510.	7494.960	.029	.0172	.0032	84.1
540.	7935.840	.027	.0175	.0029	85.7
590.	8670.640	.025	.0182	.0023	88.9
610.	8964.560	.024	.0182	.0023	88.9
640.	9405.440	.023	.0185	.0019	90.5
700.	10287.200	.021	.0188	.0016	92.1
740.	10875.040	.020	.0193	.0012	94.2
770.	11315.920	.019	.0193	.0012	94.2
800.	11756.800	.019	.0195	.0010	95.2
830.	12197.680	.018	.0195	.0010	95.2
860.	12638.560	.017	.0198	.0006	96.8
900.	13226.400	.017	.0198	.0006	96.8
930.	13667.280	.016	.0200	.0004	97.9
960.	13961.200	.016	.0203	.0002	98.9
1000.	14696.000	.014	.0205	.0000	100.0

SEQUENCE NUMBER 37
PORE VOLUME .025 CC/G

POROSITY DATA FOR SAMPLE Y 1-1459.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0251	.0
2.	29.392	7.500	.0007	.0245	2.6
3.	44.088	5.000	.0009	.0243	3.5
4.	58.784	3.700	.0010	.0242	3.9
5.	73.480	3.000	.0011	.0240	4.4
6.	88.176	2.500	.0022	.0229	8.8
7.	102.872	2.100	.0026	.0225	10.5
8.	117.568	1.800	.0033	.0218	13.2
9.	132.264	1.600	.0042	.0210	16.7
10.	146.960	1.500	.0046	.0205	18.4
11.	161.656	1.400	.0055	.0196	21.9
12.	176.352	1.300	.0062	.0190	24.6
13.	191.048	1.200	.0068	.0183	27.2
14.	205.744	1.100	.0075	.0176	29.8
15.	220.440	1.000	.0082	.0170	32.5
16.	235.135	.930	.0090	.0161	36.0
17.	249.832	.880	.0095	.0157	37.7
18.	264.528	.830	.0101	.0150	40.4
19.	279.224	.790	.0110	.0141	43.9
20.	293.920	.750	.0116	.0135	46.1
25.	367.400	.600	.0116	.0136	46.1
30.	440.880	.500	.0116	.0136	46.1
35.	514.360	.430	.0122	.0129	48.7
40.	587.840	.370	.0130	.0121	51.8
45.	661.320	.330	.0139	.0112	55.3
50.	734.800	.300	.0148	.0104	58.8
55.	808.280	.270	.0151	.0100	60.1
60.	881.760	.250	.0154	.0097	61.4
65.	955.240	.230	.0158	.0094	62.7
70.	1028.720	.210	.0161	.0090	64.0
75.	1102.200	.200	.0167	.0085	66.2
80.	1175.680	.180	.0172	.0079	68.4
85.	1249.160	.170	.0173	.0078	68.9

POROSITY DATA FOR SAMPLE Y 1-1459.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0174	.0077	69.3
100.	1469.600	.150	.0179	.0073	71.1
110.	1616.560	.140	.0182	.0069	72.4
120.	1763.520	.130	.0185	.0066	73.7
130.	1910.480	.120	.0187	.0064	74.6
140.	2057.440	.110	.0190	.0062	75.4
150.	2204.400	.100	.0192	.0060	76.3
170.	2498.320	.088	.0196	.0055	78.1
180.	2645.280	.083	.0199	.0053	78.9
190.	2792.240	.079	.0199	.0053	78.9
200.	2939.200	.075	.0200	.0052	79.4
220.	3233.120	.068	.0201	.0051	79.8
240.	3527.040	.062	.0203	.0049	80.7
260.	3820.960	.057	.0207	.0044	82.5
280.	4114.880	.053	.0210	.0042	83.3
300.	4408.800	.050	.0212	.0040	84.2
330.	4849.680	.045	.0214	.0037	85.1
360.	5290.560	.041	.0214	.0037	85.1
390.	5731.440	.038	.0218	.0033	86.8
420.	6172.320	.035	.0219	.0032	87.3
450.	6613.200	.033	.0222	.0030	88.2
490.	7201.040	.030	.0225	.0026	89.5
510.	7494.960	.029	.0225	.0026	89.5
540.	7935.840	.027	.0227	.0024	90.4
590.	8670.640	.025	.0232	.0020	92.1
610.	8964.560	.024	.0232	.0020	92.1
640.	9405.440	.023	.0233	.0019	92.5
700.	10287.200	.021	.0236	.0015	93.9
740.	10975.040	.020	.0238	.0013	94.7
770.	11315.920	.019	.0238	.0013	94.7
800.	11756.800	.019	.0240	.0011	95.6
830.	12197.680	.018	.0244	.0008	96.9
860.	12638.560	.017	.0245	.0007	97.4
900.	13226.400	.017	.0245	.0007	97.4
930.	13667.280	.016	.0247	.0004	98.2
960.	13961.200	.016	.0249	.0002	99.1
1000.	14696.000	.014	.0251	.0000	100.0

SEQUENCE NUMBER 39
PORE VOLUME .013 CC/G

POROSIFY DATA FOR SAMPLE Y 1-1479.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0133	.0
2.	29.392	7.500	.0008	.0125	5.8
3.	44.089	5.000	.0010	.0122	7.7
4.	58.784	3.700	.0011	.0121	8.7
5.	73.480	3.000	.0011	.0121	8.7
6.	88.176	2.500	.0011	.0121	8.7
7.	102.872	2.100	.0011	.0121	8.7
8.	117.568	1.800	.0011	.0121	8.7
9.	132.264	1.600	.0013	.0120	9.6
10.	146.960	1.500	.0018	.0115	13.5
11.	161.656	1.400	.0020	.0112	15.4
12.	176.352	1.300	.0023	.0110	17.3
13.	191.048	1.200	.0029	.0103	22.1
14.	205.744	1.100	.0029	.0103	22.1
15.	220.440	1.000	.0031	.0102	23.1
16.	235.136	.930	.0036	.0097	26.9
17.	249.832	.880	.0038	.0094	28.8
18.	264.528	.830	.0043	.0089	32.7
19.	279.224	.790	.0043	.0089	32.7
20.	293.920	.750	.0048	.0084	36.5
25.	367.400	.600	.0048	.0084	36.5
30.	440.880	.500	.0048	.0084	36.5
35.	514.360	.430	.0051	.0082	38.5
40.	587.840	.370	.0054	.0079	40.4
45.	661.320	.330	.0055	.0078	41.3
50.	734.800	.300	.0056	.0077	42.3
55.	808.280	.270	.0059	.0074	44.2
60.	881.760	.250	.0061	.0071	46.2
65.	955.240	.230	.0064	.0069	48.1
70.	1028.720	.210	.0066	.0066	50.0
75.	1102.200	.200	.0069	.0064	51.9
80.	1175.680	.180	.0071	.0061	53.8
85.	1249.160	.170	.0073	.0060	54.8

POROSITY DATA FOR SAMPLE Y 1-1479.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0074	.0059	55.8
100.	1469.600	.150	.0077	.0056	57.7
110.	1616.560	.140	.0077	.0056	57.7
120.	1763.520	.130	.0079	.0054	59.6
130.	1910.480	.120	.0079	.0054	59.6
140.	2057.440	.110	.0082	.0051	61.5
150.	2204.400	.100	.0082	.0051	61.5
170.	2498.320	.088	.0084	.0048	63.5
180.	2645.280	.083	.0087	.0046	65.4
190.	2792.240	.079	.0087	.0046	65.4
200.	2939.200	.075	.0088	.0045	66.3
220.	3233.120	.068	.0089	.0043	67.3
240.	3527.040	.062	.0089	.0043	67.3
260.	3820.960	.057	.0089	.0043	67.3
280.	4114.880	.053	.0092	.0041	69.2
300.	4408.800	.050	.0093	.0040	70.2
330.	4849.680	.045	.0100	.0033	75.0
360.	5290.560	.041	.0100	.0033	75.0
390.	5731.440	.038	.0100	.0033	75.0
420.	6172.320	.035	.0102	.0031	76.9
450.	6613.200	.033	.0102	.0031	76.9
490.	7201.040	.030	.0105	.0028	78.8
510.	7494.960	.029	.0105	.0028	78.8
540.	7935.840	.027	.0107	.0026	80.8
590.	8670.640	.025	.0110	.0023	82.7
610.	8964.560	.024	.0112	.0020	84.6
640.	9405.440	.023	.0112	.0020	84.6
700.	10287.200	.021	.0115	.0018	86.5
740.	10975.040	.020	.0117	.0015	88.5
770.	11315.920	.019	.0120	.0013	90.4
800.	11756.800	.019	.0122	.0010	92.3
830.	12197.680	.018	.0122	.0010	92.3
860.	12638.560	.017	.0122	.0010	92.3
900.	13226.400	.017	.0125	.0008	94.2
930.	13667.280	.016	.0125	.0008	94.2
960.	13961.200	.016	.0129	.0004	97.1
1000.	14696.000	.014	.0133	.0000	100.0

SEQUENCE NUMBER 41
 PORE VOLUME .010 CC/G

POROSITY DATA FOR SAMPLE Y 1-1494.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0100	.0
2.	29.392	7.500	.0005	.0095	4.8
3.	44.088	5.000	.0007	.0092	7.2
4.	58.784	3.700	.0007	.0092	7.2
5.	73.480	3.000	.0007	.0092	7.2
6.	88.176	2.500	.0010	.0090	9.6
7.	102.872	2.100	.0010	.0090	9.6
8.	117.568	1.800	.0010	.0090	9.6
9.	132.264	1.600	.0010	.0090	9.6
10.	146.960	1.500	.0010	.0090	9.6
11.	161.656	1.400	.0011	.0089	10.8
12.	176.352	1.300	.0011	.0089	10.8
13.	191.048	1.200	.0012	.0088	12.0
14.	205.744	1.100	.0014	.0085	14.5
15.	220.440	1.000	.0017	.0083	16.9
16.	235.136	.930	.0019	.0080	19.3
17.	249.832	.880	.0022	.0078	21.7
18.	264.528	.830	.0022	.0078	21.7
19.	279.224	.790	.0023	.0077	22.9
20.	293.920	.750	.0024	.0076	24.1
25.	367.400	.600	.0024	.0076	24.1
30.	440.880	.500	.0024	.0076	24.1
35.	514.360	.430	.0026	.0073	26.5
40.	587.840	.370	.0029	.0071	28.9
45.	661.320	.330	.0031	.0068	31.3
50.	734.800	.300	.0034	.0066	33.7
55.	808.280	.270	.0036	.0064	36.1
60.	881.760	.250	.0038	.0061	38.6
65.	955.240	.230	.0040	.0060	39.8
70.	1028.720	.210	.0041	.0059	41.0
75.	1102.200	.200	.0043	.0056	43.4
80.	1175.680	.180	.0046	.0054	45.8
85.	1249.160	.170	.0046	.0054	45.8

POROSITY DATA FOR SAMPLE Y 1-1484.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0047	.0053	47.0
100.	1469.600	.150	.0048	.0052	48.2
110.	1616.560	.140	.0048	.0052	48.2
120.	1763.520	.130	.0050	.0049	50.6
130.	1910.480	.120	.0053	.0047	53.0
140.	2057.440	.110	.0055	.0044	55.4
150.	2204.400	.100	.0055	.0044	55.4
170.	2498.320	.088	.0058	.0042	57.8
180.	2645.280	.083	.0058	.0042	57.8
190.	2792.240	.079	.0059	.0041	59.0
200.	2939.200	.075	.0060	.0040	60.2
220.	3233.120	.068	.0060	.0040	60.2
240.	3527.040	.062	.0062	.0037	62.7
260.	3820.960	.057	.0062	.0037	62.7
280.	4114.880	.053	.0065	.0035	65.1
300.	4408.800	.050	.0070	.0030	69.9
330.	4849.680	.045	.0072	.0028	72.3
360.	5290.560	.041	.0072	.0028	72.3
390.	5731.440	.038	.0072	.0028	72.3
420.	6172.320	.035	.0073	.0026	73.5
450.	6613.200	.033	.0074	.0025	74.7
480.	7054.080	.030	.0077	.0023	77.1
510.	7494.960	.029	.0077	.0023	77.1
540.	7935.840	.027	.0080	.0019	80.7
570.	8376.720	.025	.0084	.0016	84.3
610.	8964.560	.024	.0084	.0016	84.3
640.	9405.440	.023	.0085	.0014	85.5
700.	10287.200	.021	.0086	.0013	86.7
740.	10875.040	.020	.0089	.0011	89.2
770.	11315.920	.019	.0094	.0006	94.0
800.	11756.800	.019	.0094	.0006	94.0
830.	12197.680	.018	.0095	.0005	95.2
860.	12638.560	.017	.0096	.0004	96.4
900.	13226.400	.017	.0098	.0001	98.8
930.	13667.280	.016	.0098	.0001	98.8
960.	13961.200	.016	.0100	.0000	100.0
1000.	14696.000	.014	.0100	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-1514.

SEQUENCE NUMBER 43
PORE VOLUME .019 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0188	.0
2.	29.392	7.500	.0007	.0181	3.7
3.	44.088	5.000	.0008	.0179	4.3
4.	58.784	3.700	.0008	.0179	4.3
5.	73.480	3.000	.0009	.0178	5.0
6.	88.176	2.500	.0010	.0177	5.6
7.	102.872	2.100	.0012	.0176	6.2
8.	117.568	1.800	.0017	.0170	9.3
9.	132.264	1.600	.0022	.0165	11.8
10.	146.960	1.500	.0030	.0157	16.1
11.	161.656	1.400	.0030	.0157	16.1
12.	176.352	1.300	.0037	.0150	19.9
13.	191.048	1.200	.0044	.0143	23.6
14.	205.744	1.100	.0047	.0141	24.8
15.	220.440	1.000	.0052	.0135	28.0
16.	235.136	.930	.0056	.0132	29.8
17.	249.832	.880	.0061	.0127	32.3
18.	264.528	.830	.0064	.0124	34.2
19.	279.224	.790	.0068	.0120	36.0
20.	293.920	.750	.0070	.0118	37.3
25.	367.400	.600	.0070	.0118	37.3
30.	440.880	.500	.0070	.0118	37.3
35.	514.360	.430	.0076	.0112	40.4
40.	587.840	.370	.0082	.0106	43.5
45.	661.320	.330	.0089	.0099	47.2
50.	734.800	.300	.0096	.0092	50.9
55.	808.280	.270	.0100	.0087	53.4
60.	881.760	.250	.0105	.0083	55.9
65.	955.240	.230	.0107	.0080	57.1
70.	1028.720	.210	.0110	.0078	58.4
75.	1102.200	.200	.0113	.0075	60.2
80.	1175.680	.180	.0117	.0071	62.1
85.	1249.160	.170	.0118	.0070	62.7

POROSITY DATA FOR SAMPLE Y 1-1514.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0119	.0069	63.4
100.	1469.600	.150	.0121	.0066	64.6
110.	1616.560	.140	.0122	.0065	65.2
120.	1763.520	.130	.0126	.0062	67.1
130.	1910.480	.120	.0127	.0061	67.7
140.	2057.440	.110	.0128	.0059	68.3
150.	2204.400	.100	.0131	.0057	69.6
170.	2498.320	.088	.0133	.0055	70.8
190.	2645.280	.083	.0134	.0054	71.4
190.	2792.240	.079	.0135	.0052	72.0
200.	2939.200	.075	.0138	.0050	73.3
220.	3233.120	.068	.0140	.0048	74.5
240.	3527.040	.062	.0141	.0047	75.2
260.	3820.960	.057	.0142	.0045	75.8
280.	4114.880	.053	.0142	.0045	75.8
300.	4408.800	.050	.0145	.0043	77.0
330.	4849.680	.045	.0150	.0037	80.1
360.	5290.560	.041	.0150	.0037	80.1
390.	5731.440	.038	.0152	.0036	80.7
420.	6172.320	.035	.0154	.0034	82.0
450.	6613.200	.033	.0155	.0033	82.6
490.	7201.040	.030	.0157	.0030	83.9
510.	7494.960	.029	.0161	.0027	85.7
540.	7935.840	.027	.0162	.0026	86.3
590.	8570.640	.025	.0164	.0023	87.6
610.	8964.560	.024	.0165	.0022	88.2
640.	9405.440	.023	.0168	.0020	89.4
700.	10287.200	.021	.0174	.0014	92.5
740.	10875.040	.020	.0174	.0014	92.5
770.	11315.920	.019	.0176	.0012	93.8
800.	11756.800	.019	.0176	.0012	93.8
830.	12197.680	.018	.0177	.0010	94.4
860.	12638.560	.017	.0179	.0008	95.7
900.	13226.400	.017	.0182	.0006	96.9
930.	13667.280	.016	.0184	.0003	98.1
960.	13961.200	.016	.0184	.0003	98.1
1000.	14696.000	.014	.0188	.0000	100.0

SEQUENCE NUMBER 45
PORE VOLUME .022 CC/G

POROSITY DATA FOR SAMPLE Y 1-1533.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0224	.0
2.	29.392	7.500	.0008	.0215	3.7
3.	44.088	5.000	.0009	.0214	4.2
4.	58.784	3.700	.0009	.0214	4.2
5.	73.480	3.000	.0011	.0213	4.7
6.	88.176	2.500	.0012	.0212	5.2
7.	102.872	2.100	.0014	.0210	6.3
8.	117.568	1.800	.0019	.0205	8.4
9.	132.264	1.600	.0023	.0200	10.5
10.	146.960	1.500	.0030	.0193	13.6
11.	161.656	1.400	.0037	.0186	16.8
12.	176.352	1.300	.0047	.0177	20.9
13.	191.048	1.200	.0056	.0167	25.1
14.	205.744	1.100	.0061	.0163	27.2
15.	220.440	1.000	.0068	.0156	30.4
16.	235.136	.930	.0075	.0149	33.5
17.	249.832	.880	.0080	.0144	35.6
18.	264.528	.830	.0084	.0139	37.7
19.	279.224	.790	.0091	.0132	40.8
20.	293.920	.750	.0096	.0128	42.9
25.	367.400	.600	.0098	.0125	44.0
30.	440.880	.500	.0101	.0123	45.0
35.	514.360	.430	.0107	.0117	47.6
40.	587.840	.370	.0112	.0111	50.3
45.	661.320	.330	.0119	.0104	53.4
50.	734.800	.300	.0126	.0097	56.5
55.	808.280	.270	.0132	.0091	59.2
60.	881.760	.250	.0138	.0085	61.8
65.	955.240	.230	.0143	.0081	63.9
70.	1028.720	.210	.0148	.0076	66.0
75.	1102.200	.200	.0150	.0074	67.0
80.	1175.680	.180	.0152	.0071	68.1
95.	1249.160	.170	.0153	.0070	68.6

POROSITY DATA FOR SAMPLE Y 1-1533.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0155	.0069	69.1
100.	1469.600	.150	.0158	.0066	70.7
110.	1616.560	.140	.0162	.0062	72.3
120.	1763.520	.130	.0164	.0060	73.3
130.	1910.480	.120	.0165	.0059	73.8
140.	2057.440	.110	.0166	.0057	74.3
150.	2204.400	.100	.0169	.0055	75.4
170.	2498.320	.088	.0173	.0050	77.5
180.	2645.280	.083	.0176	.0048	78.5
190.	2792.240	.079	.0176	.0048	78.5
200.	2939.200	.075	.0176	.0048	78.5
220.	3233.120	.068	.0178	.0046	79.6
240.	3527.040	.062	.0180	.0043	80.6
260.	3820.960	.057	.0183	.0041	81.7
280.	4114.880	.053	.0185	.0039	82.7
300.	4408.800	.050	.0187	.0036	83.8
330.	4849.680	.045	.0187	.0036	83.8
360.	5290.560	.041	.0189	.0035	84.3
390.	5731.440	.038	.0190	.0034	84.8
420.	6172.320	.035	.0192	.0032	85.9
450.	6613.200	.033	.0196	.0028	87.4
490.	7201.040	.030	.0198	.0026	88.5
510.	7494.960	.029	.0199	.0025	89.0
540.	7935.840	.027	.0201	.0022	90.1
590.	8670.640	.025	.0204	.0020	91.1
610.	8964.560	.024	.0204	.0020	91.1
640.	9405.440	.023	.0206	.0018	92.1
700.	10287.200	.021	.0211	.0013	94.2
740.	10875.040	.020	.0211	.0013	94.2
770.	11315.920	.019	.0212	.0012	94.8
800.	11756.800	.019	.0214	.0009	95.8
830.	12197.680	.018	.0217	.0007	96.9
860.	12638.560	.017	.0217	.0007	96.9
900.	13226.400	.017	.0220	.0004	98.4
930.	13667.280	.016	.0220	.0004	98.4
960.	13961.200	.016	.0220	.0004	98.4
1000.	14696.000	.014	.0224	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-1553.

SEQUENCE NUMBER 47
PORE VOLUME .308 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0083	.0
2.	29.392	7.500	.0012	.0071	14.6
3.	44.089	5.000	.0012	.0071	14.6
4.	58.784	3.700	.0012	.0071	14.6
5.	73.480	3.000	.0012	.0071	14.6
6.	88.176	2.500	.0012	.0071	14.6
7.	102.872	2.100	.0012	.0071	14.6
8.	117.568	1.800	.0014	.0069	17.1
9.	132.264	1.600	.0014	.0069	17.1
10.	146.960	1.500	.0014	.0069	17.1
11.	161.656	1.400	.0016	.0067	19.5
12.	176.352	1.300	.0016	.0067	19.5
13.	191.048	1.200	.0016	.0067	19.5
14.	205.744	1.100	.0016	.0067	19.5
15.	220.440	1.000	.0016	.0067	19.5
16.	235.136	.930	.0016	.0067	19.5
17.	249.832	.880	.0016	.0067	19.5
18.	264.528	.830	.0016	.0067	19.5
19.	279.224	.790	.0018	.0065	22.0
20.	293.920	.750	.0018	.0065	22.0
25.	367.400	.600	.0018	.0065	22.0
30.	440.880	.500	.0018	.0065	22.0
35.	514.360	.430	.0018	.0065	22.0
40.	587.840	.370	.0018	.0065	22.0
45.	661.320	.330	.0018	.0065	22.0
50.	734.800	.300	.0018	.0065	22.0
55.	808.280	.270	.0018	.0065	22.0
60.	881.760	.250	.0018	.0065	22.0
65.	955.240	.230	.0018	.0065	22.0
70.	1028.720	.210	.0020	.0063	24.4
75.	1102.200	.200	.0020	.0063	24.4
80.	1175.680	.180	.0020	.0063	24.4
85.	1249.160	.170	.0020	.0063	24.4

POROSITY DATA FOR SAMPLE Y 1-1553.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0020	.0063	24.4
100.	1469.600	.150	.0022	.0061	26.8
110.	1616.560	.140	.0022	.0061	26.8
120.	1763.520	.130	.0022	.0061	26.8
130.	1910.480	.120	.0024	.0059	29.3
140.	2057.440	.110	.0024	.0059	29.3
150.	2204.400	.100	.0028	.0055	34.1
170.	2498.320	.088	.0028	.0055	34.1
180.	2645.280	.083	.0032	.0051	39.0
190.	2792.240	.079	.0036	.0047	43.9
200.	2939.200	.075	.0036	.0047	43.9
220.	3233.120	.068	.0038	.0044	46.3
240.	3527.040	.062	.0038	.0044	46.3
260.	3820.960	.057	.0040	.0042	48.8
280.	4114.880	.053	.0040	.0042	48.8
300.	4408.800	.050	.0040	.0042	48.8
330.	4849.680	.045	.0040	.0042	48.8
360.	5290.560	.041	.0044	.0038	53.7
390.	5731.440	.038	.0044	.0038	53.7
420.	6172.320	.035	.0049	.0034	58.5
450.	6613.200	.033	.0053	.0030	63.4
490.	7201.040	.030	.0053	.0030	63.4
510.	7494.960	.029	.0053	.0030	63.4
540.	7935.840	.027	.0057	.0026	68.3
590.	8670.640	.025	.0061	.0022	73.2
610.	8964.560	.024	.0061	.0022	73.2
640.	9405.440	.023	.0063	.0020	75.6
700.	10287.200	.021	.0065	.0018	78.0
740.	10875.040	.020	.0065	.0018	78.0
770.	11315.920	.019	.0069	.0014	82.9
800.	11756.800	.019	.0069	.0014	82.9
830.	12197.680	.018	.0069	.0014	82.9
860.	12638.560	.017	.0073	.0010	87.8
900.	13226.400	.017	.0077	.0006	92.7
930.	13667.280	.016	.0077	.0006	92.7
960.	13961.200	.016	.0083	.0000	100.0
1000.	14696.000	.014	.0083	.0000	100.0

SEQUENCE NUMBER 49
PORE VOLUME .037 CC/G

POROSITY DATA FOR SAMPLE Y 1-1573.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0374	.0
2.	29.392	7.500	.0008	.0366	2.2
3.	44.098	5.000	.0008	.0366	2.2
4.	58.784	3.700	.0009	.0365	2.5
5.	73.490	3.000	.0011	.0363	2.9
6.	88.176	2.500	.0011	.0363	2.9
7.	102.872	2.100	.0012	.0362	3.2
8.	117.568	1.800	.0019	.0355	5.0
9.	132.264	1.600	.0027	.0347	7.2
10.	146.960	1.500	.0035	.0339	9.4
11.	161.656	1.400	.0043	.0331	11.5
12.	176.352	1.300	.0048	.0326	12.9
13.	191.048	1.200	.0065	.0310	17.3
14.	205.744	1.100	.0081	.0293	21.6
15.	220.440	1.000	.0086	.0288	23.0
16.	235.136	.930	.0102	.0272	27.3
17.	249.832	.880	.0110	.0264	29.5
18.	264.528	.830	.0118	.0256	31.7
19.	279.224	.790	.0122	.0252	32.7
20.	293.920	.750	.0129	.0245	34.5
25.	367.400	.600	.0131	.0244	34.9
30.	440.880	.500	.0132	.0242	35.3
35.	514.360	.430	.0147	.0227	39.2
40.	587.840	.370	.0162	.0213	43.2
45.	661.320	.330	.0191	.0183	51.1
50.	734.800	.300	.0221	.0153	59.0
55.	808.280	.270	.0232	.0143	61.9
60.	881.760	.250	.0242	.0132	64.7
65.	955.240	.230	.0254	.0120	68.0
70.	1028.720	.210	.0264	.0110	70.5
75.	1102.200	.200	.0265	.0109	70.9
80.	1175.680	.180	.0267	.0108	71.2
85.	1249.160	.170	.0269	.0105	71.9

POROSITY DATA FOR SAMPLE Y 1-1573.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0272	.0102	72.7
100.	1469.600	.150	.0275	.0100	73.4
110.	1616.560	.140	.0280	.0094	74.8
120.	1763.520	.130	.0283	.0092	75.5
130.	1910.480	.120	.0285	.0089	76.3
140.	2057.440	.110	.0288	.0086	77.0
150.	2204.400	.100	.0291	.0083	77.7
170.	2498.320	.088	.0296	.0078	79.1
190.	2645.280	.083	.0297	.0077	79.5
190.	2792.240	.079	.0297	.0077	79.5
200.	2939.200	.075	.0301	.0073	80.6
220.	3233.120	.068	.0306	.0069	81.7
240.	3527.040	.062	.0308	.0066	82.4
260.	3820.960	.057	.0308	.0066	82.4
280.	4114.880	.053	.0312	.0062	83.5
300.	4408.800	.050	.0312	.0062	83.5
330.	4849.680	.045	.0318	.0057	84.9
360.	5290.560	.041	.0323	.0051	86.3
390.	5731.440	.038	.0324	.0050	86.7
420.	6172.320	.035	.0326	.0048	87.1
450.	6613.200	.033	.0328	.0046	87.8
490.	7201.040	.030	.0335	.0039	89.6
510.	7494.960	.029	.0339	.0035	90.6
540.	7935.840	.027	.0339	.0035	90.6
590.	8670.640	.025	.0342	.0032	91.4
610.	8964.560	.024	.0345	.0030	92.1
640.	9405.440	.023	.0347	.0027	92.8
700.	10287.200	.021	.0353	.0022	94.2
740.	10875.040	.020	.0355	.0019	95.0
770.	11315.920	.019	.0361	.0013	96.4
800.	11756.800	.019	.0361	.0013	96.4
830.	12197.680	.018	.0402	*****	107.6
860.	12638.560	.017	.0365	.0009	97.5
900.	13226.400	.017	.0366	.0008	97.8
930.	13667.280	.016	.0369	.0005	98.6
960.	13961.200	.016	.0371	.0003	99.3
1000.	14696.060	.014	.0374	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-1592.

SEQUENCE NUMBER 51
POPE VOLUME .022 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0218	.0
2.	29.392	7.500	.0009	.0210	3.9
3.	44.089	5.000	.0010	.0209	4.4
4.	58.784	3.700	.0010	.0209	4.4
5.	73.480	3.000	.0011	.0208	4.9
6.	88.176	2.500	.0019	.0199	8.8
7.	102.872	2.100	.0021	.0197	9.9
8.	117.568	1.800	.0032	.0186	14.6
9.	132.264	1.600	.0036	.0182	16.6
10.	146.960	1.500	.0043	.0176	19.5
11.	161.656	1.400	.0049	.0169	22.4
12.	176.352	1.300	.0058	.0161	26.3
13.	191.048	1.200	.0062	.0157	28.3
14.	205.744	1.100	.0064	.0154	29.3
15.	220.440	1.000	.0068	.0150	31.2
16.	235.136	.930	.0070	.0148	32.2
17.	249.832	.880	.0075	.0144	34.1
18.	264.528	.830	.0081	.0137	37.1
19.	279.224	.790	.0083	.0135	38.0
20.	293.920	.750	.0085	.0133	39.0
25.	367.400	.600	.0085	.0133	39.0
30.	440.880	.500	.0085	.0133	39.0
35.	514.360	.430	.0091	.0128	41.5
40.	587.840	.370	.0096	.0122	43.9
45.	661.320	.330	.0101	.0117	46.3
50.	734.800	.300	.0106	.0112	48.8
55.	808.280	.270	.0109	.0110	49.8
60.	881.760	.250	.0111	.0108	50.7
65.	955.240	.230	.0114	.0104	52.2
70.	1028.720	.210	.0117	.0101	53.7
75.	1102.200	.200	.0119	.0099	54.6
80.	1175.680	.180	.0121	.0097	55.6
85.	1249.160	.170	.0122	.0096	56.1

POROSITY DATA FOR SAMPLE Y 1-1592.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0124	.0095	56.6
100.	1469.600	.150	.0126	.0093	57.6
110.	1616.560	.140	.0128	.0091	58.5
120.	1763.520	.130	.0130	.0088	59.5
130.	1910.480	.120	.0134	.0084	61.5
140.	2057.440	.110	.0136	.0082	62.4
150.	2204.400	.100	.0136	.0082	62.4
170.	2498.320	.088	.0141	.0078	64.4
180.	2645.280	.083	.0143	.0076	65.4
190.	2792.240	.079	.0145	.0073	66.3
200.	2939.200	.075	.0147	.0071	67.3
220.	3233.120	.068	.0149	.0069	68.3
240.	3527.040	.062	.0153	.0065	70.2
260.	3820.960	.057	.0158	.0061	72.2
280.	4114.880	.053	.0160	.0059	73.2
300.	4408.800	.050	.0162	.0056	74.1
320.	4699.680	.045	.0166	.0052	76.1
360.	5290.560	.041	.0170	.0048	78.0
390.	5731.440	.038	.0173	.0046	79.0
420.	6172.320	.035	.0176	.0043	80.5
450.	6613.200	.033	.0178	.0040	81.5
490.	7201.040	.030	.0181	.0037	82.9
510.	7494.960	.029	.0183	.0035	83.9
540.	7935.840	.027	.0185	.0033	84.9
590.	8670.640	.025	.0190	.0029	86.8
610.	8964.560	.024	.0192	.0027	87.8
640.	9405.440	.023	.0192	.0027	87.8
700.	10287.200	.021	.0196	.0022	89.8
740.	10875.040	.020	.0200	.0018	91.7
770.	11315.920	.019	.0202	.0016	92.7
800.	11756.800	.019	.0204	.0014	93.7
830.	12197.680	.018	.0207	.0012	94.6
860.	12638.560	.017	.0209	.0010	95.6
900.	13226.400	.017	.0212	.0006	97.1
930.	13667.280	.016	.0212	.0006	97.1
960.	13901.200	.016	.0215	.0003	98.5
1000.	14696.000	.014	.0218	.0000	100.0

SEQUENCE NUMBER 53
POPE VOLUME .037 CC/G

POROSITY DATA FOR SAMPLE Y 1-1612.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0368	.0
2.	29.392	7.500	.0014	.0353	3.9
3.	44.088	5.000	.0017	.0351	4.5
4.	58.784	3.700	.0017	.0351	4.5
5.	73.480	3.000	.0019	.0349	5.2
6.	88.176	2.500	.0019	.0349	5.2
7.	102.872	2.100	.0019	.0349	5.2
8.	117.568	1.800	.0019	.0349	5.2
9.	132.264	1.600	.0019	.0349	5.2
10.	146.960	1.500	.0021	.0346	5.8
11.	161.656	1.400	.0021	.0346	5.8
12.	176.352	1.300	.0024	.0344	6.5
13.	191.048	1.200	.0024	.0344	6.5
14.	205.744	1.100	.0033	.0334	9.1
15.	220.440	1.000	.0038	.0329	10.4
16.	235.136	.930	.0043	.0325	11.7
17.	249.832	.880	.0043	.0325	11.7
18.	264.528	.830	.0048	.0320	13.0
19.	279.224	.790	.0053	.0315	14.3
20.	293.920	.750	.0057	.0310	15.6
25.	367.400	.600	.0057	.0310	15.6
30.	440.880	.500	.0057	.0310	15.6
35.	514.360	.430	.0062	.0306	16.9
40.	587.840	.370	.0067	.0301	18.2
45.	661.320	.330	.0069	.0298	18.8
50.	734.800	.300	.0072	.0296	19.5
55.	808.280	.270	.0076	.0291	20.8
60.	881.760	.250	.0081	.0287	22.1
65.	955.240	.230	.0086	.0282	23.4
70.	1028.720	.210	.0091	.0277	24.7
75.	1102.200	.200	.0096	.0272	26.0
80.	1175.680	.180	.0100	.0267	27.3
85.	1249.160	.170	.0146	.0222	39.6

POROSITY DATA FOR SAMPLE Y 1-1612.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0191	.0177	51.9
100.	1469.600	.150	.0215	.0153	58.4
110.	1616.560	.140	.0217	.0150	59.1
120.	1763.520	.130	.0217	.0150	59.1
130.	1910.480	.120	.0220	.0148	59.7
140.	2057.440	.110	.0229	.0138	62.3
150.	2204.400	.100	.0234	.0134	63.6
170.	2498.320	.088	.0234	.0134	63.6
180.	2645.280	.083	.0236	.0131	64.3
190.	2792.240	.079	.0239	.0129	64.9
200.	2939.200	.075	.0244	.0124	66.2
220.	3233.120	.068	.0244	.0124	66.2
240.	3527.040	.062	.0248	.0119	67.5
260.	3820.960	.057	.0255	.0112	69.5
280.	4114.880	.053	.0258	.0110	70.1
300.	4408.800	.050	.0258	.0110	70.1
330.	4849.680	.045	.0263	.0105	71.4
360.	5290.560	.041	.0267	.0100	72.7
390.	5731.440	.038	.0277	.0091	75.3
420.	6172.320	.035	.0282	.0086	76.6
450.	6613.200	.033	.0287	.0081	77.9
490.	7201.040	.030	.0291	.0076	79.2
510.	7494.960	.029	.0296	.0072	80.5
540.	7935.840	.027	.0296	.0072	80.5
590.	8670.640	.025	.0310	.0057	84.4
610.	8964.560	.024	.0310	.0057	84.4
640.	9405.440	.023	.0315	.0053	85.7
700.	10287.200	.021	.0329	.0038	89.6
740.	10875.040	.020	.0329	.0038	89.6
770.	11315.920	.019	.0334	.0033	90.9
800.	11756.800	.019	.0339	.0029	92.2
830.	12197.680	.018	.0344	.0024	93.5
860.	12638.560	.017	.0349	.0019	94.8
900.	13226.400	.017	.0353	.0014	96.1
930.	13667.280	.016	.0358	.0010	97.4
960.	13961.200	.016	.0363	.0005	98.7
1000.	14696.000	.014	.0368	.0000	100.0

SEQUENCE NUMBER 55
PORE VOLUME .021 CC/G

POROSITY DATA FOR SAMPLE Y 1-1632.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0207	.0
2.	29.392	7.500	.0007	.0200	3.4
3.	44.088	5.000	.0008	.0199	3.9
4.	58.784	3.700	.0008	.0199	3.9
5.	73.480	3.000	.0009	.0198	4.4
6.	88.176	2.500	.0009	.0198	4.4
7.	102.872	2.100	.0010	.0197	4.9
8.	117.568	1.800	.0010	.0197	4.9
9.	132.264	1.600	.0024	.0183	11.8
10.	146.960	1.500	.0029	.0179	13.8
11.	161.656	1.400	.0035	.0173	16.7
12.	176.352	1.300	.0039	.0168	18.7
13.	191.048	1.200	.0046	.0161	22.2
14.	205.744	1.100	.0055	.0152	26.6
15.	220.440	1.000	.0061	.0146	29.6
16.	235.136	.930	.0067	.0140	32.5
17.	249.832	.880	.0071	.0136	34.5
18.	264.528	.830	.0078	.0130	37.4
19.	279.224	.790	.0082	.0126	39.4
20.	293.920	.750	.0088	.0119	42.4
25.	367.400	.600	.0088	.0119	42.4
30.	440.880	.500	.0088	.0119	42.4
35.	514.360	.430	.0091	.0116	43.8
40.	587.840	.370	.0094	.0113	45.3
45.	661.320	.330	.0094	.0113	45.3
50.	734.800	.300	.0106	.0101	51.2
55.	808.280	.270	.0107	.0100	51.7
60.	881.760	.250	.0108	.0099	52.2
65.	955.240	.230	.0111	.0096	53.7
70.	1028.720	.210	.0114	.0093	55.2
75.	1102.200	.200	.0116	.0091	56.2
80.	1175.680	.180	.0118	.0089	57.1
85.	1249.160	.170	.0130	.0078	62.6

POROSITY DATA FOR SAMPLE Y 1-1632.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0141	.0066	68.0
100.	1469.600	.150	.0143	.0064	69.0
110.	1616.560	.140	.0145	.0062	70.0
120.	1763.520	.130	.0149	.0058	71.9
130.	1910.480	.120	.0151	.0056	72.9
140.	2057.440	.110	.0153	.0054	73.9
150.	2204.400	.100	.0153	.0054	73.9
170.	2498.320	.088	.0157	.0050	75.9
180.	2645.280	.083	.0159	.0048	76.8
190.	2792.240	.079	.0159	.0048	76.8
200.	2939.200	.075	.0161	.0046	77.8
220.	3233.120	.068	.0163	.0044	78.8
240.	3527.040	.062	.0163	.0044	78.8
260.	3820.960	.057	.0165	.0042	79.8
280.	4114.880	.053	.0167	.0040	80.8
300.	4408.800	.050	.0167	.0040	80.8
330.	4849.680	.045	.0173	.0035	83.3
360.	5290.560	.041	.0175	.0033	84.2
390.	5731.440	.038	.0176	.0032	84.7
420.	6172.320	.035	.0178	.0030	85.7
450.	6613.200	.033	.0182	.0026	87.7
490.	7201.040	.030	.0184	.0023	88.7
510.	7494.960	.029	.0184	.0023	88.7
540.	7935.840	.027	.0186	.0021	89.7
590.	8670.640	.025	.0186	.0021	89.7
610.	8964.560	.024	.0189	.0018	91.1
640.	9405.440	.023	.0192	.0015	92.6
700.	10287.200	.021	.0193	.0014	93.1
740.	10875.040	.020	.0195	.0012	94.1
770.	11315.920	.019	.0196	.0011	94.6
800.	11756.800	.019	.0198	.0009	95.6
830.	12197.680	.018	.0198	.0009	95.6
860.	12638.560	.017	.0200	.0007	96.6
900.	13226.400	.017	.0203	.0004	98.0
930.	13667.280	.016	.0205	.0002	99.0
960.	13961.200	.016	.0207	.0000	100.0
1000.	14696.000	.014	.0207	.0000	100.0

SEQUENCE NUMBER 57
PORE VOLUME .009 CC/G

POROSITY DATA FOR SAMPLE Y 1-1652.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0094	0.0
2.	29.392	7.500	.0011	.0083	12.0
3.	44.088	5.000	.0011	.0083	12.0
4.	58.784	3.700	.0013	.0081	14.0
5.	73.480	3.000	.0013	.0081	14.0
6.	88.176	2.500	.0013	.0081	14.0
7.	102.872	2.100	.0013	.0081	14.0
8.	117.568	1.800	.0013	.0081	14.0
9.	132.264	1.600	.0015	.0079	16.0
10.	146.960	1.500	.0015	.0079	16.0
11.	161.656	1.400	.0015	.0079	16.0
12.	176.352	1.300	.0015	.0079	16.0
13.	191.048	1.200	.0015	.0079	16.0
14.	205.744	1.100	.0015	.0079	16.0
15.	220.440	1.000	.0017	.0077	18.0
16.	235.136	.930	.0017	.0077	18.0
17.	249.832	.880	.0017	.0077	18.0
18.	264.528	.830	.0017	.0077	18.0
19.	279.224	.790	.0017	.0077	18.0
20.	293.920	.750	.0017	.0077	18.0
25.	367.400	.600	.0017	.0077	18.0
30.	440.880	.500	.0017	.0077	18.0
35.	514.360	.430	.0017	.0077	18.0
40.	587.840	.370	.0017	.0077	18.0
45.	661.320	.330	.0017	.0077	18.0
50.	734.800	.300	.0017	.0077	18.0
55.	808.280	.270	.0017	.0077	18.0
60.	881.760	.250	.0017	.0077	18.0
65.	955.240	.230	.0017	.0077	18.0
70.	1028.720	.210	.0019	.0075	20.0
75.	1102.200	.200	.0021	.0074	22.0
80.	1175.680	.180	.0023	.0072	24.0
85.	1249.160	.170	.0025	.0070	26.0

POROSITY DATA FOR SAMPLE Y 1-1652.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0026	.0068	28.0
100.	1469.600	.150	.0026	.0068	28.0
110.	1616.560	.140	.0030	.0064	32.0
120.	1763.520	.130	.0030	.0064	32.0
130.	1910.480	.120	.0030	.0064	32.0
140.	2057.440	.110	.0036	.0058	38.0
150.	2204.400	.100	.0036	.0058	38.0
170.	2498.320	.088	.0038	.0057	40.0
180.	2645.280	.083	.0038	.0057	40.0
190.	2792.240	.079	.0038	.0057	40.0
200.	2939.200	.075	.0038	.0057	40.0
220.	3233.120	.068	.0042	.0053	44.0
240.	3527.040	.062	.0042	.0053	44.0
260.	3820.960	.057	.0042	.0053	44.0
280.	4114.880	.053	.0049	.0045	52.0
300.	4408.800	.050	.0049	.0045	52.0
320.	4849.680	.045	.0049	.0045	52.0
360.	5290.560	.041	.0053	.0042	56.0
380.	5731.440	.038	.0057	.0038	60.0
420.	6172.320	.035	.0057	.0038	60.0
450.	6613.200	.033	.0057	.0038	60.0
490.	7201.040	.030	.0060	.0034	64.0
510.	7494.960	.029	.0064	.0030	68.0
540.	7935.840	.027	.0064	.0030	68.0
590.	8670.640	.025	.0068	.0026	72.0
610.	8964.560	.024	.0068	.0026	72.0
640.	9405.440	.023	.0074	.0021	78.0
700.	10287.200	.021	.0077	.0017	82.0
740.	10875.040	.020	.0079	.0015	84.0
770.	11315.920	.019	.0079	.0015	84.0
800.	11756.800	.019	.0083	.0011	88.0
830.	12197.680	.018	.0083	.0011	88.0
860.	12638.560	.017	.0087	.0008	92.0
900.	13226.400	.017	.0091	.0004	96.0
930.	13667.280	.016	.0091	.0004	96.0
960.	13961.200	.016	.0094	.0000	100.0
1000.	14636.000	.014	.0094	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-1672.

SEQUENCE NUMBER 59
POPE VOLUME .026 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0256	.0
2.	29.392	7.500	.0008	.0248	3.2
3.	44.088	5.000	.0009	.0247	3.6
4.	58.784	3.700	.0009	.0247	3.6
5.	73.480	3.000	.0010	.0246	4.0
6.	88.176	2.500	.0010	.0246	4.0
7.	102.872	2.100	.0012	.0244	4.8
8.	117.568	1.900	.0020	.0236	7.9
9.	132.264	1.600	.0028	.0228	11.1
10.	146.960	1.500	.0035	.0222	13.5
11.	161.656	1.400	.0043	.0213	16.7
12.	176.352	1.300	.0049	.0207	19.0
13.	191.048	1.200	.0059	.0197	23.0
14.	205.744	1.100	.0065	.0191	25.4
15.	220.440	1.000	.0071	.0185	27.8
16.	235.136	.930	.0079	.0177	31.0
17.	249.832	.880	.0081	.0175	31.7
18.	264.528	.830	.0089	.0167	34.9
19.	279.224	.790	.0096	.0161	37.3
20.	293.920	.750	.0102	.0154	39.7
25.	367.400	.600	.0105	.0151	40.9
30.	440.880	.500	.0108	.0148	42.1
35.	514.360	.430	.0114	.0142	44.4
40.	587.840	.370	.0120	.0136	46.8
45.	661.320	.330	.0131	.0125	51.2
50.	734.800	.300	.0142	.0114	55.6
55.	808.280	.270	.0147	.0109	57.5
60.	881.760	.250	.0152	.0104	59.5
65.	955.240	.230	.0157	.0099	61.5
70.	1028.720	.210	.0163	.0093	63.5
75.	1102.200	.200	.0164	.0092	63.9
80.	1175.680	.180	.0165	.0091	64.3
85.	1249.160	.170	.0167	.0089	65.1

POROSITY DATA FOR SAMPLE Y 1-1672.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0169	.0087	65.9
100.	1459.600	.150	.0171	.0085	66.7
110.	1616.560	.140	.0173	.0083	67.5
120.	1763.520	.130	.0179	.0077	69.8
130.	1910.480	.120	.0183	.0073	71.4
140.	2057.440	.110	.0185	.0071	72.2
150.	2204.400	.100	.0188	.0068	73.4
170.	2498.320	.088	.0191	.0065	74.6
180.	2645.280	.083	.0193	.0063	75.4
190.	2792.240	.079	.0193	.0063	75.4
200.	2939.200	.075	.0194	.0062	75.8
220.	3233.120	.068	.0197	.0059	77.0
240.	3527.040	.062	.0201	.0055	78.6
250.	3820.960	.057	.0202	.0054	79.0
280.	4114.880	.053	.0207	.0049	81.0
300.	4408.800	.050	.0207	.0049	81.0
330.	4849.680	.045	.0209	.0047	81.7
350.	5290.560	.041	.0214	.0042	83.7
390.	5731.440	.038	.0214	.0042	83.7
420.	6172.320	.035	.0216	.0040	84.5
450.	6613.200	.033	.0218	.0038	85.3
490.	7201.040	.030	.0224	.0033	87.3
510.	7494.960	.029	.0226	.0030	88.1
540.	7935.840	.027	.0228	.0028	88.9
590.	8670.640	.025	.0230	.0026	89.7
610.	8964.560	.024	.0234	.0022	91.3
640.	9405.440	.023	.0236	.0020	92.1
700.	10287.200	.021	.0238	.0018	92.9
740.	10875.040	.020	.0240	.0016	93.7
770.	11315.920	.019	.0242	.0014	94.4
800.	11756.800	.019	.0244	.0012	95.2
830.	12197.680	.018	.0246	.0010	96.0
860.	12638.560	.017	.0248	.0008	96.8
900.	13226.400	.017	.0250	.0006	97.6
930.	13667.280	.016	.0250	.0006	97.6
960.	13961.200	.016	.0255	.0001	99.6
1000.	14696.000	.014	.0256	.0000	100.0

SEQUENCE NUMBER 61
 PORE VOLUME .022 CC/G

POROSITY DATA FOR SAMPLE Y 1-1692.

PPRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0216	.0
2.	29.392	7.500	.0006	.0210	2.9
3.	44.088	5.000	.0007	.0209	3.4
4.	58.784	3.700	.0007	.0209	3.4
5.	73.480	3.000	.0008	.0208	3.8
6.	88.176	2.500	.0008	.0208	3.8
7.	102.872	2.100	.0008	.0208	3.8
8.	117.568	1.800	.0015	.0202	6.7
9.	132.264	1.600	.0017	.0199	8.0
10.	146.960	1.500	.0022	.0194	10.1
11.	161.656	1.400	.0029	.0187	13.4
12.	176.352	1.300	.0040	.0176	18.5
13.	191.048	1.200	.0049	.0167	22.7
14.	205.744	1.100	.0058	.0158	26.9
15.	220.440	1.000	.0064	.0153	29.4
16.	235.136	.930	.0069	.0147	31.9
17.	249.832	.880	.0074	.0142	34.5
18.	264.528	.830	.0080	.0136	37.0
19.	279.224	.790	.0084	.0133	38.7
20.	293.920	.750	.0087	.0129	40.3
25.	367.400	.600	.0091	.0125	42.0
30.	440.880	.500	.0094	.0122	43.7
35.	514.360	.430	.0103	.0113	47.5
40.	587.840	.370	.0111	.0105	51.3
45.	661.320	.330	.0119	.0097	55.0
50.	734.800	.300	.0127	.0089	58.8
55.	808.280	.270	.0131	.0085	60.5
60.	881.760	.250	.0134	.0082	62.2
65.	955.240	.230	.0138	.0078	63.9
70.	1028.720	.210	.0142	.0074	65.5
75.	1102.200	.200	.0143	.0073	66.4
80.	1175.680	.180	.0145	.0071	67.2
85.	1249.160	.170	.0147	.0069	68.1

POROSITY DATA FOR SAMPLE Y 1-1692.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0149	.0067	68.9
100.	1469.600	.150	.0153	.0064	70.6
110.	1616.560	.140	.0155	.0061	71.8
120.	1763.520	.130	.0157	.0059	72.7
130.	1910.480	.120	.0159	.0057	73.5
140.	2057.440	.110	.0162	.0054	75.2
150.	2204.400	.100	.0163	.0053	75.6
170.	2498.320	.088	.0167	.0049	77.3
180.	2645.280	.083	.0167	.0049	77.3
190.	2792.240	.079	.0169	.0047	78.2
200.	2939.200	.075	.0169	.0047	78.2
220.	3233.120	.068	.0172	.0044	79.8
240.	3527.040	.062	.0173	.0043	80.3
260.	3820.960	.057	.0174	.0042	80.7
290.	4114.880	.053	.0178	.0038	82.4
300.	4408.800	.050	.0180	.0036	83.2
330.	4849.680	.045	.0182	.0034	84.5
360.	5290.560	.041	.0183	.0033	84.9
390.	5731.440	.038	.0185	.0031	85.7
420.	6172.320	.035	.0187	.0029	86.6
450.	6613.200	.033	.0189	.0027	87.4
490.	7201.040	.030	.0192	.0024	89.1
510.	7494.960	.029	.0192	.0024	89.1
540.	7935.840	.027	.0194	.0022	89.9
590.	8670.640	.025	.0196	.0020	90.8
610.	8964.560	.024	.0198	.0018	91.6
640.	9405.440	.023	.0200	.0016	92.4
700.	10287.200	.021	.0202	.0015	93.3
740.	10975.040	.020	.0203	.0013	94.1
770.	11315.920	.019	.0207	.0009	95.8
800.	11756.800	.019	.0208	.0008	96.2
830.	12197.680	.018	.0208	.0008	96.2
860.	12638.560	.017	.0210	.0006	97.1
900.	13226.400	.017	.0211	.0005	97.5
930.	13667.280	.016	.0212	.0004	98.3
960.	13961.200	.016	.0216	.0000	100.0
1000.	14696.000	.014	.0216	.0000	100.0

SEQUENCE NUMBER 63
PORE VOLUME .014 CC/G

POROSITY DATA FOR SAMPLE Y 1-1711.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0139	.0
2.	29.392	7.500	.0008	.0131	6.1
3.	44.089	5.000	.0010	.0130	7.0
4.	58.784	3.700	.0010	.0130	7.0
5.	73.480	3.000	.0010	.0130	7.0
6.	88.176	2.500	.0011	.0129	7.8
7.	102.872	2.100	.0011	.0129	7.8
8.	117.568	1.800	.0015	.0125	10.4
9.	132.264	1.600	.0019	.0120	13.9
10.	146.960	1.500	.0024	.0115	17.4
11.	161.656	1.400	.0024	.0115	17.4
12.	176.352	1.300	.0029	.0110	20.9
13.	191.048	1.200	.0032	.0108	22.6
14.	205.744	1.100	.0036	.0103	26.1
15.	220.440	1.000	.0039	.0101	27.8
16.	235.136	.930	.0041	.0098	29.6
17.	249.832	.880	.0041	.0098	29.6
18.	264.528	.830	.0044	.0096	31.3
19.	279.224	.790	.0046	.0093	33.0
20.	293.920	.750	.0048	.0091	34.8
25.	367.460	.600	.0050	.0090	35.7
30.	440.890	.500	.0051	.0089	36.5
35.	514.360	.430	.0055	.0085	39.1
40.	587.840	.370	.0058	.0081	41.7
45.	661.320	.330	.0061	.0079	43.5
50.	734.800	.300	.0063	.0076	45.2
55.	808.280	.270	.0064	.0075	46.1
60.	881.760	.250	.0065	.0074	47.0
65.	955.240	.230	.0068	.0072	48.7
70.	1028.720	.210	.0070	.0069	50.4
75.	1102.200	.200	.0072	.0069	51.3
80.	1175.680	.180	.0073	.0067	52.2
95.	1249.160	.170	.0074	.0065	53.0

POROSITY DATA FOR SAMPLE Y 1-1711.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0075	.0064	53.9
100.	1469.600	.150	.0078	.0062	55.7
110.	1616.560	.140	.0078	.0062	55.7
120.	1763.520	.130	.0080	.0059	57.4
130.	1910.480	.120	.0082	.0057	59.1
140.	2057.440	.110	.0085	.0055	60.9
150.	2204.400	.100	.0085	.0055	60.9
170.	2498.320	.088	.0087	.0052	62.6
180.	2645.280	.083	.0087	.0052	62.6
190.	2792.240	.079	.0087	.0052	62.6
200.	2939.200	.075	.0090	.0050	64.3
220.	3233.120	.068	.0090	.0050	64.3
240.	3527.040	.062	.0095	.0045	67.8
260.	3820.960	.057	.0096	.0044	68.7
280.	4114.880	.053	.0096	.0044	68.7
300.	4408.800	.050	.0099	.0040	71.3
330.	4849.680	.045	.0099	.0040	71.3
360.	5290.560	.041	.0102	.0038	73.0
390.	5731.440	.038	.0104	.0035	74.8
420.	6172.320	.035	.0104	.0035	74.8
450.	6613.200	.033	.0107	.0033	76.5
490.	7201.040	.030	.0109	.0030	78.3
510.	7494.960	.029	.0112	.0028	80.0
540.	7935.840	.027	.0114	.0025	81.7
590.	8670.640	.025	.0116	.0023	83.5
610.	8964.560	.024	.0119	.0021	85.2
640.	9405.440	.023	.0119	.0021	85.2
700.	10287.200	.021	.0122	.0017	87.8
740.	10875.040	.020	.0124	.0016	88.7
770.	11315.920	.019	.0126	.0013	90.4
800.	11756.800	.019	.0129	.0011	92.2
830.	12197.680	.018	.0131	.0008	93.9
860.	12638.560	.017	.0131	.0008	93.9
900.	13226.400	.017	.0133	.0006	95.7
930.	13667.280	.016	.0136	.0004	97.4
960.	13961.200	.016	.0138	.0001	99.1
1000.	14696.000	.014	.0139	.0000	100.0

SEQUENCE NUMBER 65
PORE VOLUME .018 CC/G

POROSITY DATA FOR SAMPLE Y 1-1731.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0181	.0
2.	29.392	7.500	.0009	.0172	4.9
3.	44.089	5.000	.0010	.0171	5.6
4.	58.784	3.700	.0010	.0171	5.6
5.	73.480	3.000	.0011	.0170	6.3
6.	88.176	2.500	.0011	.0170	6.3
7.	102.872	2.100	.0015	.0166	8.3
8.	117.568	1.800	.0025	.0156	13.9
9.	132.264	1.600	.0030	.0151	16.7
10.	146.960	1.500	.0038	.0144	20.8
11.	161.656	1.400	.0044	.0137	24.3
12.	176.352	1.300	.0053	.0128	29.2
13.	191.048	1.200	.0058	.0123	31.9
14.	205.744	1.100	.0062	.0120	34.0
15.	220.440	1.000	.0068	.0113	37.5
16.	235.136	.930	.0070	.0111	38.9
17.	249.832	.880	.0078	.0103	43.1
18.	264.528	.830	.0081	.0101	44.4
19.	279.224	.790	.0083	.0098	45.8
20.	293.920	.750	.0086	.0096	47.2
25.	367.400	.600	.0087	.0094	47.9
30.	440.880	.500	.0088	.0093	48.6
35.	514.360	.430	.0093	.0088	51.4
40.	587.840	.370	.0098	.0083	54.2
45.	661.320	.330	.0101	.0081	55.6
50.	734.800	.300	.0103	.0078	56.9
55.	808.280	.270	.0106	.0076	58.3
60.	881.760	.250	.0108	.0073	59.7
65.	955.240	.230	.0110	.0072	60.4
70.	1028.720	.210	.0111	.0070	61.1
75.	1102.200	.200	.0112	.0069	61.8
80.	1175.680	.180	.0113	.0068	62.5
85.	1249.160	.170	.0115	.0067	63.2

POROSITY DATA FOR SAMPLE Y 1-1731.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0116	.0065	63.9
100.	1469.600	.150	.0118	.0063	65.3
110.	1616.560	.140	.0121	.0060	66.7
120.	1763.520	.130	.0121	.0060	66.7
130.	1910.480	.120	.0123	.0058	68.1
140.	2057.440	.110	.0126	.0055	69.4
150.	2204.400	.100	.0127	.0054	70.1
170.	2498.320	.088	.0130	.0052	71.5
180.	2645.280	.083	.0130	.0052	71.5
190.	2792.240	.079	.0132	.0049	72.9
200.	2939.200	.075	.0132	.0049	72.9
220.	3233.120	.068	.0136	.0045	75.0
240.	3527.040	.062	.0137	.0044	75.7
260.	3820.960	.057	.0138	.0043	76.4
280.	4114.880	.053	.0138	.0043	76.4
300.	4408.800	.050	.0141	.0040	77.8
330.	4849.680	.045	.0144	.0038	79.2
360.	5290.560	.041	.0146	.0035	80.6
390.	5731.440	.038	.0149	.0033	81.9
420.	6172.320	.035	.0149	.0033	81.9
450.	6613.200	.033	.0151	.0030	83.3
490.	7201.040	.030	.0152	.0029	84.0
510.	7494.960	.029	.0154	.0028	84.7
540.	7935.840	.027	.0156	.0025	86.1
590.	8670.640	.025	.0159	.0023	87.5
610.	8964.560	.024	.0159	.0023	87.5
640.	9405.440	.023	.0161	.0020	88.9
700.	10287.200	.021	.0166	.0015	91.7
740.	10875.040	.020	.0169	.0013	93.1
770.	11315.920	.019	.0169	.0013	93.1
800.	11756.800	.019	.0171	.0010	94.4
830.	12197.680	.018	.0171	.0010	94.4
860.	12638.560	.017	.0172	.0009	95.1
900.	13226.400	.017	.0175	.0006	96.5
930.	13667.280	.016	.0175	.0006	96.5
960.	13961.200	.016	.0179	.0003	98.6
1000.	14696.000	.014	.0181	.0000	100.0

SEQUENCE NUMBER 67
PORE VOLUME .021 CC/G

POPOSIITY DATA FOR SAMPLE Y 1-1751.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0214	.0
2.	29.392	7.500	.0009	.0205	4.4
3.	44.088	5.000	.0009	.0205	4.4
4.	58.784	3.700	.0011	.0204	5.0
5.	73.480	3.000	.0011	.0204	5.0
6.	88.176	2.500	.0011	.0204	5.0
7.	102.872	2.100	.0012	.0202	5.7
8.	117.568	1.800	.0012	.0202	5.7
9.	132.264	1.600	.0012	.0202	5.7
10.	146.960	1.500	.0019	.0196	8.8
11.	161.656	1.400	.0024	.0190	11.3
12.	176.352	1.300	.0027	.0188	12.6
13.	191.048	1.200	.0034	.0181	15.7
14.	205.744	1.100	.0040	.0174	18.9
15.	220.440	1.000	.0046	.0169	21.4
16.	235.136	.930	.0051	.0163	23.9
17.	249.832	.880	.0061	.0154	28.3
18.	264.528	.830	.0065	.0150	30.2
19.	279.224	.790	.0067	.0147	31.4
20.	293.920	.750	.0070	.0144	32.7
25.	367.400	.600	.0076	.0139	35.2
30.	440.880	.500	.0081	.0134	37.7
35.	514.360	.430	.0089	.0125	41.5
40.	587.840	.370	.0097	.0117	45.3
45.	661.320	.330	.0105	.0109	49.1
50.	734.800	.300	.0113	.0101	52.8
55.	808.280	.270	.0116	.0098	54.1
60.	881.760	.250	.0119	.0096	55.3
65.	955.240	.230	.0120	.0094	56.0
70.	1028.720	.210	.0121	.0093	56.6
75.	1102.200	.200	.0127	.0088	59.1
80.	1175.680	.180	.0132	.0082	61.6
85.	1249.160	.170	.0134	.0081	62.3

POROSITY DATA FOR SAMPLE Y 1-1751.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0135	.0080	62.9
100.	1469.600	.150	.0140	.0074	65.4
110.	1616.560	.140	.0142	.0073	66.0
120.	1763.520	.130	.0143	.0071	66.7
130.	1910.480	.120	.0148	.0066	69.2
140.	2057.440	.110	.0150	.0065	69.8
150.	2204.400	.100	.0150	.0065	69.8
170.	2498.320	.088	.0151	.0063	70.4
190.	2645.280	.083	.0154	.0061	71.7
190.	2792.240	.079	.0159	.0055	74.2
200.	2939.200	.075	.0159	.0055	74.2
220.	3233.120	.068	.0162	.0053	75.5
240.	3527.040	.062	.0162	.0053	75.5
250.	3820.960	.057	.0165	.0050	76.7
280.	4114.880	.053	.0167	.0047	78.0
300.	4408.800	.050	.0170	.0045	79.2
330.	4849.680	.045	.0170	.0045	79.2
360.	5290.560	.041	.0175	.0039	81.8
390.	5731.440	.038	.0175	.0039	81.8
420.	6172.320	.035	.0178	.0036	83.0
450.	6613.200	.033	.0181	.0034	84.3
490.	7201.040	.030	.0183	.0031	85.5
510.	7494.960	.029	.0186	.0028	86.8
540.	7935.840	.027	.0189	.0026	88.1
590.	8670.640	.025	.0192	.0023	89.3
610.	8964.560	.024	.0194	.0020	90.6
640.	9405.440	.023	.0194	.0020	90.6
700.	10287.200	.021	.0200	.0015	93.1
740.	10875.040	.020	.0201	.0013	93.7
770.	11315.920	.019	.0202	.0012	94.3
800.	11756.800	.019	.0205	.0009	95.6
830.	12197.680	.018	.0205	.0009	95.6
860.	12638.560	.017	.0208	.0007	96.9
900.	13226.400	.017	.0210	.0004	98.1
930.	13667.280	.016	.0212	.0003	98.7
960.	13961.200	.016	.0212	.0003	98.7
1000.	14696.000	.014	.0214	.0000	100.0

SEQUENCE NUMBER 69
PORE VOLUME .029 CC/G

POROSITY DATA FOR SAMPLE Y 1-1770.

1	2	3	4	5	
PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	
				PCT. PORES GREATER THAN DIA INDICATED	
1.	14.696	15.000	.0000	.0288	.0
2.	29.392	7.500	.0008	.0280	2.9
3.	44.088	5.000	.0008	.0280	2.9
4.	58.784	3.700	.0008	.0280	2.9
5.	73.480	3.000	.0009	.0279	3.2
6.	88.176	2.500	.0012	.0276	4.3
7.	102.872	2.100	.0021	.0268	7.2
8.	117.568	1.800	.0031	.0257	10.8
9.	132.264	1.600	.0037	.0251	12.9
10.	146.960	1.500	.0046	.0243	15.8
11.	161.656	1.400	.0052	.0236	18.0
12.	176.352	1.300	.0062	.0226	21.6
13.	191.048	1.200	.0075	.0214	25.9
14.	205.744	1.100	.0081	.0207	28.1
15.	220.440	1.000	.0088	.0200	30.6
16.	235.136	.930	.0097	.0191	33.8
17.	249.832	.880	.0106	.0183	36.7
18.	264.528	.830	.0114	.0174	39.6
19.	279.224	.790	.0119	.0169	41.4
20.	293.920	.750	.0124	.0164	43.2
25.	367.400	.600	.0127	.0162	43.9
30.	440.880	.500	.0129	.0160	44.6
35.	514.360	.430	.0138	.0150	47.8
40.	587.840	.370	.0147	.0141	51.1
45.	661.320	.330	.0157	.0132	54.3
50.	734.800	.300	.0166	.0122	57.6
55.	808.280	.270	.0172	.0116	59.7
60.	881.760	.250	.0178	.0110	61.9
65.	955.240	.230	.0183	.0106	63.3
70.	1028.720	.210	.0187	.0102	64.7
75.	1102.200	.200	.0189	.0100	65.5
80.	1175.680	.180	.0191	.0097	66.2
85.	1249.160	.170	.0194	.0094	67.3

POROSITY DATA FOR SAMPLE Y 1-1770.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.643	.160	.0197	.0091	68.3
100.	1469.603	.150	.0199	.0089	69.1
110.	1616.560	.140	.0202	.0086	70.1
120.	1763.520	.130	.0205	.0083	71.2
130.	1910.480	.120	.0211	.0078	73.0
140.	2057.440	.110	.0213	.0076	73.7
150.	2204.400	.100	.0213	.0076	73.7
170.	2498.320	.088	.0218	.0071	75.5
180.	2645.280	.083	.0220	.0068	76.3
190.	2792.240	.079	.0220	.0068	76.3
200.	2939.200	.075	.0226	.0062	78.4
220.	3233.120	.068	.0228	.0060	79.1
240.	3527.040	.062	.0229	.0059	79.5
260.	3820.960	.057	.0232	.0056	80.6
280.	4114.880	.053	.0237	.0051	82.4
300.	4408.800	.050	.0239	.0050	82.7
330.	4849.680	.045	.0241	.0048	83.5
360.	5290.560	.041	.0245	.0044	84.9
390.	5731.440	.038	.0247	.0041	85.6
420.	6172.320	.035	.0249	.0039	86.3
450.	6613.200	.033	.0252	.0036	87.4
490.	7201.040	.030	.0254	.0034	88.1
510.	7494.960	.029	.0257	.0031	89.2
540.	7935.840	.027	.0260	.0028	90.3
570.	8376.720	.025	.0261	.0027	90.6
610.	8964.560	.024	.0263	.0025	91.4
640.	9405.440	.023	.0265	.0023	92.1
700.	10287.200	.021	.0272	.0017	94.2
740.	10875.040	.020	.0274	.0015	95.0
770.	11315.920	.019	.0274	.0015	95.0
800.	11756.800	.019	.0276	.0012	95.7
830.	12197.680	.018	.0279	.0009	96.8
860.	12638.560	.017	.0281	.0007	97.5
900.	13226.400	.017	.0284	.0004	98.6
930.	13667.280	.016	.0284	.0004	98.6
960.	13961.200	.016	.0286	.0002	99.3
1000.	14696.000	.014	.0288	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-1790.

SEQUENCE NUMBER 71
PORE VOLUME .016 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0161	.0
2.	29.392	7.500	.0006	.0154	4.0
3.	44.088	5.000	.0006	.0154	4.0
4.	58.784	3.700	.0008	.0153	4.8
5.	73.480	3.000	.0008	.0153	4.8
6.	88.176	2.500	.0008	.0153	4.8
7.	102.872	2.100	.0009	.0152	5.6
8.	117.568	1.800	.0009	.0152	5.6
9.	132.264	1.600	.0010	.0151	6.5
10.	146.960	1.500	.0010	.0151	6.5
11.	161.656	1.400	.0010	.0151	6.5
12.	176.352	1.300	.0016	.0145	9.7
13.	191.048	1.200	.0021	.0140	12.9
14.	205.744	1.100	.0026	.0135	16.1
15.	220.440	1.000	.0026	.0135	16.1
16.	235.136	.930	.0034	.0127	21.0
17.	249.832	.880	.0039	.0122	24.2
18.	264.528	.830	.0042	.0119	25.8
19.	279.224	.790	.0044	.0117	27.4
20.	293.920	.750	.0047	.0114	29.0
25.	367.400	.600	.0048	.0113	29.8
30.	440.880	.500	.0049	.0112	30.6
35.	514.360	.430	.0056	.0105	34.7
40.	587.840	.370	.0062	.0099	38.7
45.	661.320	.330	.0065	.0096	40.3
50.	734.800	.300	.0067	.0093	41.9
55.	808.280	.270	.0070	.0091	43.5
60.	881.760	.250	.0073	.0088	45.2
65.	955.240	.230	.0077	.0084	47.6
70.	1028.720	.210	.0080	.0080	50.0
75.	1102.200	.200	.0084	.0077	52.4
80.	1175.680	.180	.0088	.0073	54.8
85.	1249.160	.170	.0090	.0071	55.6

POROSITY DATA FOR SAMPLE Y 1-1790.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0091	.0070	56.5
100.	1469.600	.150	.0092	.0069	57.3
110.	1616.560	.140	.0093	.0067	58.1
120.	1763.520	.130	.0096	.0065	59.7
130.	1910.480	.120	.0101	.0060	62.9
140.	2057.440	.110	.0104	.0057	64.5
150.	2204.400	.100	.0104	.0057	64.5
170.	2498.320	.088	.0106	.0055	66.1
180.	2645.280	.083	.0106	.0055	66.1
190.	2792.240	.079	.0110	.0051	68.5
200.	2939.200	.075	.0110	.0051	68.5
220.	3233.120	.068	.0110	.0051	68.5
240.	3527.040	.062	.0116	.0045	71.8
260.	3820.960	.057	.0116	.0045	71.8
280.	4114.880	.053	.0119	.0042	74.2
300.	4408.800	.050	.0119	.0042	74.2
330.	4849.680	.045	.0122	.0039	75.8
360.	5290.560	.041	.0125	.0036	77.4
390.	5731.440	.038	.0127	.0034	79.0
420.	6172.320	.035	.0130	.0031	80.6
450.	6613.200	.033	.0132	.0029	82.3
490.	7201.040	.030	.0132	.0029	82.3
510.	7494.960	.029	.0135	.0026	83.9
540.	7935.840	.027	.0138	.0023	85.5
590.	8670.640	.025	.0140	.0021	87.1
610.	8964.560	.024	.0141	.0019	87.9
640.	9405.440	.023	.0141	.0019	87.9
700.	10287.200	.021	.0145	.0016	90.3
740.	10875.040	.020	.0145	.0016	90.3
770.	11315.920	.019	.0148	.0013	91.9
800.	11756.800	.019	.0151	.0010	93.5
830.	12197.680	.018	.0153	.0008	95.2
860.	12638.560	.017	.0154	.0006	96.0
900.	13226.400	.017	.0154	.0006	96.0
930.	13667.280	.016	.0154	.0006	96.0
960.	13961.200	.016	.0158	.0003	98.4
1000.	14696.000	.014	.0161	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-1830.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0213	.0097	68.7
100.	1469.600	.150	.0213	.0097	68.7
110.	1616.560	.140	.0213	.0097	68.7
120.	1763.520	.130	.0218	.0092	70.2
130.	1910.480	.120	.0220	.0090	71.0
140.	2057.440	.110	.0223	.0088	71.8
150.	2204.400	.100	.0225	.0085	72.5
170.	2498.320	.088	.0230	.0081	74.0
190.	2645.280	.083	.0232	.0078	74.8
190.	2792.240	.079	.0232	.0078	74.8
200.	2939.200	.075	.0235	.0076	75.6
220.	3233.120	.068	.0239	.0071	77.1
240.	3527.040	.062	.0242	.0069	77.9
260.	3820.960	.057	.0243	.0068	78.2
280.	4114.880	.053	.0244	.0066	78.6
300.	4408.800	.050	.0248	.0063	79.8
330.	4849.680	.045	.0251	.0059	80.9
360.	5290.560	.041	.0254	.0057	81.7
390.	5731.440	.038	.0258	.0052	83.2
420.	6172.320	.035	.0261	.0050	84.0
450.	6613.200	.033	.0263	.0047	84.7
490.	7201.040	.030	.0268	.0043	86.3
510.	7494.960	.029	.0270	.0040	87.0
540.	7935.840	.027	.0271	.0039	87.4
590.	8670.640	.025	.0277	.0033	89.3
610.	8964.560	.024	.0277	.0033	89.3
640.	9405.440	.023	.0282	.0028	90.8
700.	10287.200	.021	.0284	.0026	91.6
740.	10875.040	.020	.0289	.0021	93.1
770.	11315.920	.019	.0290	.0020	93.5
800.	11756.800	.019	.0293	.0018	94.3
830.	12197.680	.018	.0295	.0015	95.0
860.	12638.560	.017	.0297	.0013	95.8
900.	13226.400	.017	.0299	.0012	96.2
930.	13667.280	.016	.0301	.0009	96.9
960.	13961.200	.016	.0303	.0007	97.7
1000.	14696.000	.014	.0311	.0000	100.0

SEQUENCE NUMBER 75
POPE VOLUME .031 CC/G

POROSITY DATA FOR SAMPLE Y 1-1830.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0311	.0
2.	29.392	7.500	.0009	.0301	3.1
3.	44.088	5.000	.0011	.0300	3.4
4.	58.784	3.700	.0012	.0299	3.8
5.	73.480	3.000	.0024	.0287	7.6
6.	88.176	2.500	.0036	.0275	11.5
7.	102.872	2.100	.0047	.0263	15.3
8.	117.568	1.800	.0059	.0251	19.1
9.	132.264	1.600	.0071	.0239	22.9
10.	146.960	1.500	.0083	.0228	26.7
11.	161.656	1.400	.0095	.0216	30.5
12.	176.352	1.300	.0107	.0204	34.4
13.	191.048	1.200	.0119	.0192	38.2
14.	205.744	1.100	.0130	.0180	42.0
15.	220.440	1.000	.0142	.0168	45.8
16.	235.136	.930	.0154	.0156	49.6
17.	249.832	.880	.0166	.0145	53.4
18.	264.528	.830	.0178	.0133	57.3
19.	279.224	.790	.0190	.0121	61.1
20.	293.920	.750	.0213	.0097	68.7
25.	367.400	.600	.0213	.0097	68.7
30.	440.880	.500	.0213	.0097	68.7
35.	514.360	.430	.0213	.0097	68.7
40.	587.840	.370	.0213	.0097	68.7
45.	661.320	.330	.0213	.0097	68.7
50.	734.800	.300	.0213	.0097	68.7
55.	808.280	.270	.0213	.0097	68.7
60.	881.760	.250	.0213	.0097	68.7
65.	955.240	.230	.0213	.0097	68.7
70.	1028.720	.210	.0213	.0097	68.7
75.	1102.200	.200	.0213	.0097	68.7
80.	1175.680	.190	.0213	.0097	68.7
85.	1249.160	.170	.0213	.0097	68.7

SEQUENCE NUMBER 77
PORE VOLUME .339 CC/G

POROSITY DATA FOR SAMPLE Y 1-1850.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0390	.0
2.	29.392	7.500	.0015	.0374	4.0
3.	44.088	5.000	.0017	.0372	4.5
4.	58.784	3.700	.0017	.0372	4.5
5.	73.480	3.000	.0017	.0372	4.5
6.	88.176	2.500	.0019	.0370	5.0
7.	102.872	2.100	.0027	.0363	6.9
8.	117.568	1.800	.0039	.0351	9.9
9.	132.264	1.600	.0046	.0343	11.9
10.	146.960	1.500	.0054	.0336	13.9
11.	161.656	1.400	.0062	.0328	15.8
12.	176.352	1.300	.0077	.0313	19.8
13.	191.048	1.200	.0087	.0303	22.3
14.	205.744	1.100	.0100	.0289	25.7
15.	220.440	1.000	.0116	.0274	29.7
16.	235.136	.930	.0127	.0262	32.7
17.	249.832	.880	.0143	.0247	36.6
18.	264.528	.830	.0150	.0239	38.6
19.	279.224	.790	.0154	.0235	39.6
20.	293.920	.750	.0162	.0228	41.6
25.	367.400	.600	.0176	.0214	45.0
30.	440.880	.500	.0189	.0201	48.5
35.	514.360	.430	.0191	.0199	49.0
40.	587.840	.370	.0193	.0197	49.5
45.	661.320	.330	.0205	.0185	52.5
50.	734.800	.300	.0216	.0174	55.4
55.	808.280	.270	.0228	.0162	58.4
60.	881.760	.250	.0239	.0150	61.4
65.	955.240	.230	.0243	.0147	62.4
70.	1028.720	.210	.0247	.0143	63.4
75.	1102.200	.200	.0253	.0137	64.9
80.	1175.680	.180	.0259	.0131	66.3
85.	1249.160	.170	.0262	.0127	67.3

POROSITY DATA FOR SAMPLE Y 1-1850.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0266	.0123	68.3
100.	1469.600	.150	.0270	.0120	69.3
110.	1616.560	.140	.0270	.0120	69.3
120.	1763.520	.130	.0274	.0116	70.3
130.	1910.480	.120	.0278	.0112	71.3
140.	2057.440	.110	.0282	.0108	72.3
150.	2204.400	.100	.0286	.0104	73.3
170.	2498.320	.088	.0291	.0098	74.8
180.	2645.280	.083	.0291	.0098	74.8
190.	2792.240	.079	.0293	.0096	75.2
200.	2939.200	.075	.0293	.0096	75.2
220.	3233.120	.068	.0297	.0093	76.2
240.	3527.040	.062	.0307	.0083	78.7
260.	3820.960	.057	.0307	.0083	79.7
280.	4114.880	.053	.0311	.0079	79.7
300.	4408.800	.050	.0313	.0077	80.2
330.	4849.680	.045	.0316	.0073	81.2
360.	5290.560	.041	.0326	.0064	83.7
390.	5731.440	.038	.0328	.0062	84.2
420.	6172.320	.035	.0328	.0062	84.2
450.	6613.200	.033	.0336	.0054	86.1
480.	7201.040	.030	.0336	.0054	86.1
510.	7494.960	.029	.0340	.0050	87.1
540.	7935.840	.027	.0340	.0050	87.1
590.	8670.640	.025	.0347	.0042	89.1
610.	8964.560	.024	.0351	.0039	90.1
640.	9405.440	.023	.0351	.0039	90.1
700.	10287.200	.021	.0363	.0027	93.1
740.	10875.040	.020	.0367	.0023	94.1
770.	11315.920	.019	.0368	.0021	94.6
800.	11756.800	.019	.0370	.0019	95.0
830.	12197.680	.018	.0370	.0019	95.0
860.	12638.560	.017	.0374	.0015	96.0
900.	13226.400	.017	.0378	.0012	97.0
930.	13667.280	.016	.0378	.0012	97.0
960.	13961.200	.016	.0382	.0008	98.0
1000.	14696.000	.014	.0390	.0000	100.0

SEQUENCE NUMBER 83
PORE VOLUME .324 CC/G

POROSITY DATA FOR SAMPLE Y 1-1909.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0236	.0
2.	29.392	7.500	.0015	.0222	6.2
3.	44.088	5.000	.0015	.0222	6.2
4.	58.784	3.700	.0016	.0220	7.0
5.	73.480	3.000	.0016	.0220	7.0
6.	88.176	2.500	.0016	.0220	7.0
7.	102.872	2.100	.0016	.0220	7.0
8.	117.568	1.800	.0018	.0218	7.8
9.	132.264	1.600	.0026	.0211	10.9
10.	146.960	1.500	.0037	.0200	15.5
11.	161.656	1.400	.0048	.0189	20.2
12.	176.352	1.300	.0051	.0185	21.7
13.	191.048	1.200	.0057	.0180	24.0
14.	205.744	1.100	.0066	.0170	27.9
15.	220.440	1.000	.0073	.0163	31.0
16.	235.136	.930	.0073	.0163	31.0
17.	249.832	.880	.0077	.0159	32.6
18.	264.528	.830	.0081	.0156	34.1
19.	279.224	.790	.0084	.0152	35.7
20.	293.920	.750	.0092	.0145	38.8
25.	367.400	.600	.0092	.0145	38.8
30.	440.880	.500	.0092	.0145	38.8
35.	514.360	.430	.0097	.0139	41.1
40.	587.840	.370	.0103	.0134	43.4
45.	661.320	.330	.0106	.0130	45.0
50.	734.800	.300	.0110	.0126	46.5
55.	808.280	.270	.0114	.0123	48.1
60.	881.760	.250	.0117	.0119	49.6
65.	955.240	.230	.0119	.0117	50.4
70.	1028.720	.210	.0121	.0115	51.2
75.	1102.200	.200	.0123	.0114	51.9
80.	1175.680	.180	.0125	.0112	52.7
85.	1249.160	.170	.0126	.0110	53.5

POROSITY DATA FOR SAMPLE Y 1-1909.

PPRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0128	.0108	54.3
100.	1469.600	.150	.0132	.0104	55.8
110.	1616.560	.140	.0132	.0104	55.8
120.	1763.520	.130	.0136	.0101	57.4
130.	1910.480	.120	.0139	.0097	58.9
140.	2057.440	.110	.0139	.0097	58.9
150.	2204.400	.100	.0143	.0093	60.5
170.	2498.320	.088	.0147	.0090	62.0
180.	2645.280	.083	.0147	.0090	62.0
190.	2792.240	.079	.0148	.0088	62.8
200.	2939.200	.075	.0150	.0086	63.6
220.	3233.120	.068	.0150	.0086	63.6
240.	3527.040	.062	.0154	.0082	65.1
260.	3820.960	.057	.0163	.0073	69.0
280.	4114.880	.053	.0165	.0071	69.8
300.	4408.800	.050	.0165	.0071	69.8
330.	4849.680	.045	.0172	.0064	72.9
360.	5290.560	.041	.0176	.0060	74.4
390.	5731.440	.038	.0180	.0057	76.0
420.	6172.320	.035	.0181	.0055	76.7
450.	6613.200	.033	.0183	.0053	77.5
490.	7201.040	.030	.0187	.0049	79.1
510.	7494.960	.029	.0191	.0046	80.6
540.	7935.840	.027	.0194	.0042	82.2
590.	8670.640	.025	.0198	.0038	83.7
610.	8964.560	.024	.0202	.0035	85.3
640.	9405.440	.023	.0205	.0031	86.8
700.	10287.200	.021	.0209	.0027	88.4
740.	10875.040	.020	.0213	.0024	89.9
770.	11315.920	.019	.0216	.0020	91.5
800.	11756.800	.019	.0220	.0016	93.0
830.	12197.680	.018	.0220	.0016	93.0
860.	12638.560	.017	.0224	.0013	94.6
900.	13226.400	.017	.0227	.0009	96.1
930.	13667.280	.016	.0231	.0005	97.7
960.	13961.200	.016	.0233	.0004	98.4
1000.	14696.000	.014	.0236	.0000	100.0

SEQUENCE NUMBER 85
PORE VOLUME .013 CC/G

POROSITY DATA FOR SAMPLE Y 1-1929.

PRFSSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0129	.0
2.	29.392	7.500	.0008	.0121	6.3
3.	44.089	5.000	.0008	.0121	6.3
4.	58.784	3.700	.0010	.0119	7.8
5.	73.480	3.000	.0012	.0117	9.4
6.	88.175	2.500	.0012	.0117	9.4
7.	102.872	2.100	.0012	.0117	9.4
8.	117.569	1.800	.0014	.0115	10.9
9.	132.264	1.600	.0014	.0115	10.9
10.	146.960	1.500	.0014	.0115	10.9
11.	161.655	1.400	.0016	.0113	12.5
12.	176.352	1.300	.0016	.0113	12.5
13.	191.049	1.200	.0016	.0113	12.5
14.	205.744	1.100	.0016	.0113	12.5
15.	220.440	1.000	.0016	.0113	12.5
16.	235.135	.930	.0018	.0111	14.1
17.	249.832	.880	.0018	.0111	14.1
18.	264.529	.830	.0018	.0111	14.1
19.	279.224	.790	.0018	.0111	14.1
20.	293.920	.750	.0018	.0111	14.1
25.	367.400	.600	.0018	.0111	14.1
30.	440.880	.500	.0018	.0111	14.1
35.	514.360	.430	.0020	.0109	15.6
40.	587.840	.370	.0024	.0105	18.8
45.	661.320	.330	.0030	.0099	23.4
50.	734.800	.300	.0036	.0092	28.1
55.	808.280	.270	.0038	.0090	29.7
60.	881.760	.250	.0040	.0088	31.3
65.	955.240	.230	.0040	.0088	31.3
70.	1028.720	.210	.0040	.0088	31.3
75.	1102.200	.200	.0042	.0086	32.8
80.	1175.680	.180	.0044	.0084	34.4
85.	1249.160	.170	.0044	.0084	34.4

POROSITY DATA FOR SAMPLE Y 1-1929.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0044	.0084	34.4
100.	1469.600	.150	.0048	.0080	37.5
110.	1616.560	.140	.0052	.0076	40.6
120.	1763.520	.130	.0056	.0072	43.8
130.	1910.480	.120	.0060	.0068	46.9
140.	2057.440	.110	.0060	.0068	46.9
150.	2204.400	.100	.0060	.0068	46.9
170.	2498.320	.088	.0064	.0064	50.0
180.	2645.280	.083	.0064	.0064	50.0
190.	2792.240	.079	.0064	.0064	50.0
200.	2939.200	.075	.0064	.0064	50.0
220.	3233.120	.068	.0068	.0060	53.1
240.	3527.040	.062	.0072	.0056	56.3
260.	3820.960	.057	.0076	.0052	59.4
280.	4114.880	.053	.0076	.0052	59.4
300.	4408.800	.050	.0076	.0052	59.4
330.	4849.600	.045	.0080	.0048	62.5
350.	5290.560	.041	.0084	.0044	65.6
390.	5731.440	.038	.0084	.0044	65.6
420.	6172.320	.035	.0088	.0040	68.8
450.	6613.200	.033	.0088	.0040	68.8
490.	7201.040	.030	.0092	.0036	71.9
510.	7494.960	.029	.0097	.0032	75.0
540.	7935.840	.027	.0097	.0032	75.0
590.	8670.640	.025	.0099	.0030	76.6
610.	8964.560	.024	.0103	.0026	79.7
640.	9405.440	.023	.0105	.0024	81.2
700.	10287.200	.021	.0107	.0022	82.8
740.	10875.040	.020	.0111	.0018	85.9
770.	11315.920	.019	.0111	.0018	85.9
800.	11756.800	.019	.0117	.0012	90.6
830.	12197.680	.018	.0117	.0012	90.6
850.	12638.560	.017	.0119	.0010	92.2
900.	13226.400	.017	.0123	.0006	95.3
930.	13667.280	.016	.0123	.0006	95.3
950.	13961.200	.016	.0129	.0000	100.0
1000.	14696.000	.014	.0129	.0000	100.0

SEQUENCE NUMBER 89
PORE VOLUME .034 CC/G

POROSITY DATA FOR SAMPLE Y 1-1967.

1	2	3	4	5	
PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	
				PCT. PORES GREATER THAN DIA INDICATED	
1.	14.695	15.000	.0000	.0344	.0
2.	29.392	7.500	.0011	.0333	3.1
3.	44.038	5.000	.0011	.0333	3.1
4.	58.784	3.700	.0012	.0332	3.5
5.	73.480	3.000	.0014	.0330	3.9
6.	88.175	2.500	.0015	.0329	4.4
7.	102.872	2.100	.0015	.0329	4.4
8.	117.568	1.800	.0027	.0317	7.9
9.	132.264	1.600	.0030	.0314	8.7
10.	146.960	1.500	.0045	.0299	13.1
11.	161.656	1.400	.0054	.0290	15.7
12.	176.352	1.300	.0060	.0284	17.5
13.	191.049	1.200	.0069	.0275	20.1
14.	205.744	1.100	.0083	.0261	24.0
15.	220.440	1.000	.0093	.0251	27.1
16.	235.135	.930	.0105	.0239	30.6
17.	249.832	.880	.0113	.0231	32.8
18.	264.528	.830	.0120	.0224	34.9
19.	279.224	.790	.0132	.0212	38.4
20.	293.920	.750	.0138	.0206	40.2
25.	367.400	.600	.0143	.0201	41.5
30.	440.880	.500	.0143	.0201	41.5
35.	514.360	.430	.0143	.0201	41.5
40.	587.840	.370	.0168	.0176	48.9
45.	661.320	.330	.0179	.0165	52.0
50.	734.800	.300	.0192	.0152	55.9
55.	808.280	.270	.0194	.0150	56.3
60.	881.760	.250	.0195	.0149	56.8
65.	955.240	.230	.0204	.0140	59.4
70.	1028.720	.210	.0213	.0131	62.0
75.	1102.200	.200	.0216	.0128	62.9
80.	1175.680	.180	.0219	.0125	63.8
85.	1249.160	.170	.0224	.0120	65.1

POROSITY DATA FOR SAMPLE Y 1-1967.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0228	.0116	66.4
100.	1469.600	.150	.0231	.0113	67.2
110.	1616.560	.140	.0234	.0110	68.1
120.	1763.520	.130	.0237	.0107	69.0
130.	1910.480	.120	.0240	.0104	69.9
140.	2057.440	.110	.0240	.0104	69.9
150.	2204.400	.100	.0246	.0098	71.6
170.	2498.320	.088	.0249	.0095	72.5
180.	2645.280	.083	.0249	.0095	72.5
190.	2792.240	.079	.0254	.0090	73.8
200.	2939.200	.075	.0255	.0089	74.2
220.	3233.120	.068	.0261	.0083	76.0
240.	3527.040	.062	.0264	.0080	76.9
260.	3820.960	.057	.0267	.0077	77.7
280.	4114.880	.053	.0270	.0074	78.6
300.	4408.800	.050	.0273	.0071	79.5
330.	4849.680	.045	.0278	.0066	80.8
360.	5290.560	.041	.0282	.0062	82.1
390.	5731.440	.038	.0284	.0060	82.5
420.	6172.320	.035	.0291	.0053	84.7
450.	6613.200	.033	.0294	.0050	85.6
490.	7201.040	.030	.0297	.0047	86.5
510.	7494.960	.029	.0300	.0044	87.3
540.	7935.840	.027	.0302	.0042	87.8
590.	8670.640	.025	.0306	.0038	89.1
610.	8964.560	.024	.0309	.0035	90.0
640.	9405.440	.023	.0311	.0033	90.4
700.	10287.200	.021	.0317	.0027	92.1
740.	10975.040	.020	.0318	.0026	92.6
770.	11315.920	.019	.0323	.0021	93.9
800.	11756.800	.019	.0327	.0017	95.2
830.	12197.680	.018	.0329	.0015	95.6
860.	12638.560	.017	.0332	.0012	96.5
900.	13226.400	.017	.0336	.0008	97.8
930.	13667.280	.016	.0336	.0008	97.8
960.	13961.200	.016	.0339	.0005	98.7
1000.	14696.000	.014	.0344	.0000	100.0

SEQUENCE NUMBER 93
PORE VOLUME .031 CC/G

POROSITY DATA FOR SAMPLE Y 1-2006.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0310	.0
2.	29.392	7.500	.0014	.0295	4.6
3.	44.088	5.000	.0014	.0295	4.6
4.	58.784	3.700	.0016	.0294	5.2
5.	73.480	3.000	.0016	.0294	5.2
6.	88.175	2.500	.0018	.0292	5.7
7.	102.872	2.100	.0025	.0285	8.0
8.	117.568	1.800	.0036	.0274	11.5
9.	132.264	1.600	.0043	.0267	13.8
10.	146.960	1.500	.0050	.0260	16.1
11.	161.656	1.400	.0057	.0253	18.4
12.	176.352	1.300	.0071	.0239	23.0
13.	191.048	1.200	.0078	.0231	25.3
14.	205.744	1.100	.0085	.0224	27.6
15.	220.440	1.000	.0089	.0221	28.7
16.	235.136	.930	.0096	.0214	31.0
17.	249.832	.880	.0103	.0206	33.3
18.	264.528	.830	.0107	.0203	34.5
19.	279.224	.790	.0110	.0199	35.6
20.	293.920	.750	.0114	.0196	36.8
25.	367.400	.600	.0114	.0196	36.8
30.	440.880	.500	.0114	.0196	36.8
35.	514.360	.430	.0119	.0190	38.5
40.	587.840	.370	.0125	.0185	40.2
45.	661.320	.330	.0135	.0174	43.7
50.	734.800	.300	.0146	.0164	47.1
55.	808.280	.270	.0153	.0157	49.4
60.	881.760	.250	.0160	.0150	51.7
65.	955.240	.230	.0164	.0146	52.9
70.	1028.720	.210	.0167	.0142	54.0
75.	1102.200	.200	.0173	.0137	55.7
80.	1175.680	.180	.0178	.0132	57.5
85.	1249.160	.170	.0180	.0130	58.0

POROSITY DATA FOR SAMPLE Y 1-2006.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
99.	1322.640	.160	.0182	.0128	58.6
100.	1469.600	.150	.0187	.0123	60.3
110.	1616.560	.140	.0187	.0123	60.3
120.	1763.520	.130	.0194	.0116	62.6
130.	1910.480	.120	.0196	.0114	63.2
140.	2057.440	.110	.0199	.0110	64.4
150.	2204.400	.100	.0203	.0107	65.5
170.	2498.320	.088	.0206	.0103	66.7
180.	2645.280	.083	.0210	.0100	67.8
190.	2792.240	.079	.0212	.0098	68.4
200.	2939.200	.075	.0214	.0096	69.0
220.	3233.120	.068	.0215	.0094	69.5
240.	3527.040	.062	.0219	.0091	70.7
260.	3820.960	.057	.0224	.0085	72.4
280.	4114.880	.053	.0228	.0082	73.6
300.	4408.800	.050	.0231	.0078	74.7
330.	4849.680	.045	.0233	.0077	75.3
360.	5290.560	.041	.0237	.0073	76.4
390.	5731.440	.038	.0246	.0064	79.3
420.	6172.320	.035	.0247	.0062	79.9
450.	6613.200	.033	.0249	.0061	80.5
490.	7201.040	.030	.0253	.0057	81.6
510.	7494.960	.029	.0256	.0053	82.8
540.	7935.840	.027	.0260	.0050	83.9
590.	8670.640	.025	.0267	.0043	86.2
610.	8964.560	.024	.0267	.0043	86.2
640.	9405.440	.023	.0271	.0039	87.4
700.	10287.200	.021	.0278	.0032	89.7
740.	10875.040	.020	.0281	.0028	90.8
770.	11315.920	.019	.0285	.0025	92.0
800.	11756.800	.019	.0287	.0023	92.5
830.	12197.680	.018	.0290	.0020	93.7
860.	12638.560	.017	.0294	.0016	94.8
900.	13226.400	.017	.0299	.0011	96.6
930.	13667.280	.016	.0304	.0005	98.3
960.	13961.200	.016	.0306	.0004	98.9
1000.	14696.000	.014	.0310	.0000	100.0

SEQUENCE NUMBER 95
PORE VOLUME .035 CC/G

POROSITY DATA FOR SAMPLE Y 1-2056.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.696	15.000	.0000	.0353	.0
2.	29.392	7.500	.0013	.0340	3.6
3.	44.089	5.000	.0015	.0338	4.2
4.	58.784	3.700	.0017	.0336	4.8
5.	73.480	3.000	.0017	.0336	4.8
6.	88.175	2.500	.0017	.0336	4.8
7.	102.872	2.100	.0019	.0334	5.5
8.	117.568	1.800	.0026	.0327	7.3
9.	132.264	1.600	.0043	.0310	12.1
10.	146.960	1.500	.0051	.0302	14.5
11.	161.656	1.400	.0064	.0289	18.2
12.	176.352	1.300	.0073	.0280	20.6
13.	191.048	1.200	.0086	.0267	24.2
14.	205.744	1.100	.0096	.0257	27.3
15.	220.440	1.000	.0107	.0246	30.3
16.	235.136	.930	.0116	.0237	32.7
17.	249.832	.880	.0120	.0233	33.9
18.	264.528	.830	.0133	.0220	37.6
19.	279.224	.790	.0137	.0216	38.8
20.	293.920	.750	.0141	.0212	40.0
25.	367.400	.600	.0141	.0212	40.0
30.	440.880	.500	.0141	.0212	40.0
35.	514.360	.430	.0152	.0201	43.0
40.	587.840	.370	.0163	.0190	46.1
45.	661.320	.330	.0173	.0180	49.1
50.	734.800	.300	.0184	.0169	52.1
55.	808.280	.270	.0188	.0165	53.3
60.	881.760	.250	.0193	.0160	54.5
65.	955.240	.230	.0199	.0154	56.4
70.	1028.720	.210	.0205	.0148	58.2
75.	1102.200	.200	.0210	.0143	59.4
80.	1175.680	.180	.0214	.0139	60.6
85.	1249.160	.170	.0214	.0139	60.6

POROSITY DATA FOR SAMPLE Y 1-2056.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0214	.0139	60.6
100.	1469.600	.150	.0218	.0135	61.8
110.	1616.563	.140	.0222	.0130	63.0
120.	1763.520	.130	.0231	.0122	65.5
130.	1910.489	.120	.0233	.0120	66.1
140.	2057.449	.110	.0235	.0118	66.7
150.	2204.409	.100	.0235	.0118	66.7
170.	2498.320	.088	.0244	.0109	69.1
190.	2645.280	.083	.0244	.0109	69.1
190.	2792.240	.079	.0248	.0105	70.3
200.	2939.200	.075	.0248	.0105	70.3
220.	3233.120	.068	.0255	.0098	72.1
240.	3527.040	.062	.0257	.0096	72.7
260.	3820.960	.057	.0259	.0094	73.3
280.	4114.880	.053	.0270	.0083	76.4
300.	4408.800	.050	.0270	.0083	76.4
330.	4949.680	.045	.0274	.0079	77.6
360.	5290.560	.041	.0278	.0075	78.8
390.	5731.440	.038	.0280	.0073	79.4
420.	6172.320	.035	.0282	.0071	80.0
450.	6613.200	.033	.0289	.0064	81.8
490.	7201.040	.030	.0297	.0056	84.2
510.	7494.960	.029	.0302	.0051	85.5
540.	7935.840	.027	.0302	.0051	85.5
590.	8670.640	.025	.0308	.0045	87.3
610.	8964.560	.024	.0308	.0045	87.3
640.	9405.440	.023	.0317	.0036	89.7
700.	10287.200	.021	.0321	.0032	90.9
740.	10875.040	.020	.0329	.0024	93.3
770.	11315.920	.019	.0334	.0019	94.5
800.	11756.800	.019	.0334	.0019	94.5
830.	12197.680	.018	.0342	.0011	97.0
860.	12638.560	.017	.0342	.0011	97.0
900.	13226.400	.017	.0342	.0011	97.0
930.	13667.280	.016	.0342	.0011	97.0
960.	13961.200	.016	.0353	.0000	100.0
1000.	14696.000	.014	.0353	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-2735.

SEQUENCE NUMBER 149
PORE VOLUME .018 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0183	0.0
2.	29.392	7.500	.0013	.0170	7.0
3.	44.089	5.000	.0015	.0169	8.0
4.	58.784	3.700	.0015	.0169	8.0
5.	73.480	3.000	.0015	.0169	8.0
6.	88.176	2.500	.0016	.0167	9.0
7.	102.872	2.100	.0016	.0167	9.0
8.	117.568	1.800	.0016	.0167	9.0
9.	132.264	1.600	.0016	.0167	9.0
10.	146.960	1.500	.0022	.0161	12.0
11.	161.656	1.400	.0022	.0161	12.0
12.	176.352	1.300	.0033	.0150	18.0
13.	191.048	1.200	.0035	.0148	19.0
14.	205.744	1.100	.0037	.0147	20.0
15.	220.440	1.000	.0037	.0147	20.0
16.	235.136	.930	.0044	.0139	24.0
17.	249.832	.880	.0044	.0139	24.0
18.	264.528	.830	.0048	.0136	26.0
19.	279.224	.790	.0055	.0128	30.0
20.	293.920	.750	.0059	.0125	32.0
25.	367.400	.600	.0060	.0123	33.0
30.	440.880	.500	.0062	.0121	34.0
35.	514.360	.430	.0066	.0117	36.0
40.	587.840	.370	.0070	.0114	38.0
45.	661.320	.330	.0075	.0108	41.0
50.	734.800	.300	.0081	.0103	44.0
55.	808.280	.270	.0084	.0099	46.0
60.	881.760	.250	.0088	.0095	48.0
65.	955.240	.230	.0092	.0092	50.0
70.	1028.720	.210	.0095	.0088	52.0
75.	1102.200	.200	.0099	.0084	54.0
80.	1175.680	.180	.0103	.0081	56.0
85.	1249.160	.170	.0104	.0079	57.0

POROSITY DATA FOR SAMPLE Y 1-2735.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
30.	1322.640	.160	.0106	.0077	58.0
100.	1469.600	.150	.0110	.0073	60.0
110.	1616.560	.140	.0110	.0073	60.0
120.	1763.520	.130	.0110	.0073	60.0
130.	1910.480	.120	.0110	.0073	60.0
140.	2057.440	.110	.0110	.0073	60.0
150.	2204.400	.100	.0112	.0071	61.0
170.	2498.320	.088	.0112	.0071	61.0
180.	2645.280	.083	.0114	.0070	62.0
190.	2792.240	.079	.0114	.0070	62.0
200.	2939.200	.075	.0114	.0070	62.0
220.	3233.120	.068	.0121	.0062	66.0
240.	3527.040	.062	.0125	.0059	68.0
260.	3820.960	.057	.0128	.0055	70.0
280.	4114.880	.053	.0128	.0055	70.0
300.	4408.800	.050	.0130	.0053	71.0
330.	4849.680	.045	.0130	.0053	71.0
360.	5290.560	.041	.0130	.0053	71.0
390.	5731.440	.038	.0136	.0048	74.0
420.	6172.320	.035	.0143	.0040	78.0
450.	6613.200	.033	.0147	.0037	80.0
490.	7201.040	.030	.0148	.0035	81.0
510.	7494.960	.029	.0148	.0035	81.0
540.	7935.840	.027	.0148	.0035	81.0
590.	8670.640	.025	.0154	.0029	84.0
610.	8964.560	.024	.0154	.0029	84.0
640.	9405.440	.023	.0158	.0026	86.0
700.	10287.200	.021	.0163	.0020	89.0
740.	10875.040	.020	.0167	.0016	91.0
770.	11315.920	.019	.0169	.0015	92.0
800.	11756.800	.019	.0169	.0015	92.0
830.	12197.680	.018	.0172	.0011	94.0
860.	12638.560	.017	.0172	.0011	94.0
900.	13226.400	.017	.0176	.0007	96.0
930.	13667.280	.016	.0180	.0004	98.0
960.	13961.200	.016	.0180	.0004	98.0
1000.	14696.000	.014	.0183	.0000	100.0

POROSITY DATA FOR SAMPLE Y 1-2814.

SEQUENCE NUMBER 157
PORE VOLUME .021 CC/G

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
1.	14.695	15.000	.0000	.0205	.0
2.	29.392	7.500	.0010	.0195	5.0
3.	44.099	5.000	.0010	.0195	5.0
4.	58.794	3.700	.0012	.0194	5.7
5.	73.490	3.000	.0012	.0194	5.7
6.	88.176	2.500	.0012	.0194	5.7
7.	102.872	2.100	.0012	.0194	5.7
8.	117.568	1.800	.0013	.0192	6.4
9.	132.264	1.600	.0015	.0191	7.1
10.	146.960	1.500	.0015	.0191	7.1
11.	161.656	1.400	.0022	.0183	10.7
12.	176.352	1.300	.0028	.0178	13.6
13.	191.048	1.200	.0031	.0175	15.0
14.	205.744	1.100	.0038	.0167	18.6
15.	220.440	1.000	.0041	.0164	20.0
16.	235.136	.930	.0047	.0159	22.9
17.	249.832	.880	.0050	.0156	24.3
18.	264.529	.830	.0056	.0150	27.1
19.	279.224	.790	.0062	.0144	30.0
20.	293.920	.750	.0065	.0141	31.4
25.	367.400	.600	.0069	.0136	33.6
30.	440.880	.500	.0073	.0132	35.7
35.	514.360	.430	.0082	.0123	40.0
40.	587.840	.370	.0091	.0114	44.3
45.	661.320	.330	.0094	.0112	45.7
50.	734.800	.300	.0097	.0109	47.1
55.	808.280	.270	.0100	.0106	48.6
60.	881.760	.250	.0103	.0103	50.0
65.	955.240	.230	.0106	.0100	51.4
70.	1028.720	.210	.0109	.0097	52.9
75.	1102.200	.200	.0112	.0094	54.3
80.	1175.680	.180	.0114	.0091	55.7
85.	1249.160	.170	.0116	.0090	56.4

POROSITY DATA FOR SAMPLE Y 1-2814.

PRESSURE ATMS	PRESSURE PSI	PORE DIAMETER MICRON	PORE VOLUME CC/G	CHANGE IN PORE VOLUME CC/G	PCT. PORES GREATER THAN DIA INDICATED
90.	1322.640	.160	.0117	.0088	57.1
100.	1469.600	.150	.0120	.0085	58.6
110.	1616.560	.140	.0123	.0082	60.0
120.	1763.520	.130	.0123	.0082	60.0
130.	1910.480	.120	.0126	.0079	61.4
140.	2057.440	.110	.0129	.0076	62.9
150.	2204.400	.100	.0132	.0073	64.3
170.	2498.320	.088	.0132	.0073	64.3
180.	2645.280	.083	.0134	.0072	65.0
190.	2792.240	.079	.0138	.0068	67.1
200.	2939.200	.075	.0138	.0068	67.1
220.	3233.120	.068	.0141	.0065	68.6
240.	3527.040	.062	.0144	.0062	70.0
260.	3820.960	.057	.0144	.0062	70.0
280.	4114.880	.053	.0147	.0059	71.4
300.	4408.800	.050	.0150	.0056	72.9
330.	4849.680	.045	.0153	.0053	74.3
360.	5290.560	.041	.0153	.0053	74.3
390.	5731.440	.038	.0160	.0045	77.9
420.	6172.320	.035	.0161	.0044	78.6
450.	6613.200	.033	.0164	.0041	80.0
490.	7201.040	.030	.0167	.0038	81.4
510.	7494.960	.029	.0170	.0035	82.9
540.	7935.840	.027	.0173	.0032	84.3
590.	8670.640	.025	.0176	.0029	85.7
610.	8964.560	.024	.0176	.0029	85.7
640.	9405.440	.023	.0181	.0025	87.9
700.	10287.200	.021	.0181	.0025	87.9
740.	10875.040	.020	.0188	.0018	91.4
770.	11315.920	.019	.0191	.0015	92.9
800.	11756.800	.019	.0191	.0015	92.9
830.	12197.680	.018	.0194	.0012	94.3
860.	12638.560	.017	.0194	.0012	94.3
900.	13226.400	.017	.0197	.0009	95.7
930.	13667.280	.016	.0200	.0006	97.1
960.	13961.200	.016	.0203	.0003	98.6
1000.	14696.000	.014	.0205	.0000	100.0